

Scenario

IBox is an Ebay shop run by the owner from their home office. The business sells a large variety of discounted electronic items to EBay bidders. The business has asked you to recommend a new computer system for them to purchase.

The business currently has a desktop PC with the following specification:

- 1.5 GHz Intel Pentium Processor
- 512 MB RAM
- 20 GB Hard Disk (*2 GB free space*)
- 15" Monitor
- 2 USB connections
- Floppy Disk Drive
- 16x DVD ROM Drive

The PC has the following peripheral devices:

- Mouse
- Keyboard
- Black and white inkjet printer
- 2 Mega pixel digital camera (with 512MB memory card)
- BT ADSL Modem
- Speakers

The PC has the following software installed:

- Microsoft Windows 98 Professional
- Microsoft Office 2000 Premium (incorporating: Word, Excel , Access, PowerPoint, Outlook, Publisher, FrontPage, PhotoDraw)
- Microsoft Internet Explorer 4.0

The aim of the required system is to be able to perform faster and produce a better working environment. The computer that is already in use is now so out of date. We know this by the way the company is still using floppy disk drive in today's society floppy disks don't exist any more. Also using a old spec computer to run a business of is so bad especially having only 2 GB of memory free on a 20Gb hard drive. Also to provide a flat screen monitor to reduce the risk of strain to the eye, on the other hand the computer's processor is below average spec and wouldn't be able to run to much programs and it would be very slow. Also the printer that the company is using is really old. There for to provide the company with an all in one printer scanner and fax. The Bt ADSL Modem I would scrap and replace it with a BT package called BT Total Broadband Business. This package includes a free wireless router and also it comes with enhanced technical support. Also it gives you an option to have your very own web domain with a website creator. Then I would have another BT Line coming in to the house or home this enables you to keep you home personal line free and not having to give out your home number. With this free wireless router that is included you can have as many computers and Laptops as you like. All with internet access and also all of the computers and laptops can print from anywhere around the house.

The purpose of the required system is because the business uses the PC at least 6 days a week for work purposes during office hours; however the computer is used for personal use in the evenings.

The company uses internet explorer to enter descriptions of all the products sold on the EBay shop. The information is then copied into the EBay listing which includes photos from a digital camera. Also the details are typed and saved into word processed documents is also another purpose.

The business also use a relational database system created in Microsoft Access which is used to store the details of buyers and items. This system is used to print a receipt which is enclosed with the buyer's purchase. Another purpose of this system is to be able to print.

Buyers are contacted by email to request payment and when their purchase has been despatched. The business typically makes 5 -10 sales each day. This is another good purpose of the system because the business needs to make contact with customers.

The business accounts are kept on a spreadsheet file and updated weekly. The PC is also used regularly for online banking.

The business owns a domain name and setting up a website advertising the online shop is a possibility for the future.

The business does not currently backup any of its files, use a firewall or anti - virus software.

The hardware required by the business would be:**Input and Output Devices:**

Mouse and keyboard would be essential for the business because if they didn't have that they would be stuck and won't be able to do anything without them. Also depending on machine the computer won't boot up if it does not detect that keyboard and mouse is not present. This I would recommend a wireless mouse and keyboard. I would recommend this as there would be less wires hanging from the computer. The all in one printer would be used to print out the spreadsheets and details of the buyers and items bought. Also it will be able to scan, copy, fax. Also it will take up less room rather than having a separate printer and scanner. The wireless router would be used for the internet so they can use the internet for work purposes. Also with the wireless router the business can link the printer up to the router.

In the scenario it states that the company has a 2 mega pixel digital camera with 512MB of memory which for one it does not give a good picture and secondly to run a business like the company it is not very good as the memory would not be enough. I personally would upgrade to either a 7.5 mega pixel camera with at least 2 GB memory. The company will need a digital camera because they are going to need to take good quality pictures of their products that they are selling if they are going to put the images on web. Digital cameras have all the features of a normal camera (E.G. Zoom, Focus, Shutter Speed E.C.T) but the image is digitised and saved to memory card or to a minidisk inside the camera. The quality from the higher resolution cameras rivals the resolution of a 35mm slide. Most digital camcorders are now also able to capture still images. The images are stored on a videotape or on memory modules such as the Sony memory stick. Digital cameras use a variety of methods to transfer the stored images to a pc, such as USB, serial and infrared links. Others use removable storage such as floppy disks or CD – R Disk.

Networking

As I have mentioned in the aim, purpose and input and output I have been mentioning about wireless. For the new computer I would have a wireless card installed inside the computer with an antenna with a wire coming from the computer. With the wireless router installed and you have working internet then you can go by setting up your home network and adding printers or other computers/laptops.

Processor

The processor consists of 1.5GHz Intel Pentium so it doesn't have a good amount of processor power to run the application and software they need to use for their work. I would recommend a processor of at least 2GHz. The 512MB Ram in the old computer. I would recommend at least 2GB of ram.

Storage Devices

It has got 2 USB connections to attach a memory stick to the PC if they wished and any other removable hardware. This would be replaced on up-to-date computers to 4 or 6 round the back of the machine and two at the front. The 16x DVD ROM Drive would be used to backup the data on the computer with the details of the buyers and items sold. The PC have got a 20GB hard drive with only 2GB free space so they cant really store all the data of the buyers and all of the items that have been sold. This I would recommend a hard drive at least 120GB. The processor is the brains of the computer because it is where most of the calculations take place.

In order for the computer to work it has to temporarily store the programme and data in an area where it can be used by the computer's processor. This area is known as the computers memory or sometimes as primary storage. The memory chips consist of a large number of cells, each having a fixed capacity for storing data and each has a unique location or address. This type of memory is known as RAM. RAM stands for random access memory it's contents are volatile. This means that the programme and the data that is held in the memory is lost when the computer is switched off.

CD / DVD ROMS

The computer CD player works in a similar way to an ordinary CD player, except that the data that is read is computer data instead of audio data. The disks used with CD players can store around 650 MBYTES of data, which is equivalent to about 500 high – density floppy disks. The disks are removable and are not easily damaged. The only draw back is that the basic system only reads data from a disk to computer. Read and write systems are available but are more expensive. DVD disks works in a similar way but store much data (typically 4.7 GB)

Operating system

I would recommend Windows Vista Home premium or ultimate as a suitable operating system for the business because it runs a lot better and depending on the processor is much faster and more reliable to use. This operating system comes complete with

- Windows media centre
- 5 Games
- any many more extras

Home premium I would say is the best operating system for the company and it is at the most reasonable price.

This table is comparing the other vista operating system and listing all the features that come with that operating system.

Features	Home Basic	Home Premium	Business	Ultimate
Suggested Retail Price	£108.62	£141.20	£162.89	£173.75
Most secure Windows ever... Most secure Windows ever with Windows Defender and Windows Firewall	✓	✓	✓	✓
Quickly find what you need... Quickly find what you need with Instant Search and Windows Internet Explorer 7	✓	✓	✓	✓
Elegant Windows Aero experience... Elegant Windows Aero desktop experience includes glass-like menu bars, Windows Flip 3D, and Live Thumbnails		✓	✓	✓
Best choice for laptops... Best choice for laptops through features like Windows Mobility Centre and Tablet PC support		✓	✓	✓
Share documents and collaborate... Share documents and collaborate with Windows Meeting Space		✓	✓	✓
Use a secondary screen on your mobile PC... Use a secondary screen on your mobile PC or extend your display to other devices using Windows SideShow		✓	✓	✓
All-in-one media center functionality... All-in-one media center functionality makes any room a media room using Windows Media Center and Media Center Extenders		✓		✓
Protect against hardware			✓	✓

failure... Protect against hardware failure with Windows Complete PC Backup and Restore				
Scan, fax, and receive documents and images... Scan, fax, and receive documents and images with Windows Fax and Scan			✓	✓
Automatically back up your files... Automatically back up your files with Scheduled Backup		✓	✓	✓
Remotely access your business resources... Remotely access your business resources and applications with Remote Desktop Connection			✓	✓
Easier networking connectivity... Easier networking connectivity helps you stay connected wherever and whenever you like with the Network and Sharing Center	✓	✓	✓	✓
Better protect your data against loss... Better protect your data against loss with Windows BitLocker Drive Encryption				✓
Easily make DVDs... Easily make DVDs with Windows DVD Maker		✓		✓
Have more fun on your PC... Have more fun on your PC with three new premium games: Chess Titans, Mahjong Titans, and InkBall		✓		✓
Create high-definition movies... Create high-definition (HD)		✓		✓

movies with Windows Movie Maker in HD			
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From this table I am certain that Home Premium is the better value of money because it comes with quite a few features but here is the main feature that the company are going to benefit from.

Automatically back up your files

- The file backup and restore features in Windows Vista make it easier for you to keep your data safe from user error, hardware failure, and other problems.
- The Windows Backup and Restore Centre gives you the user one place to manage all backup and restore features.

Automatically back up your files with Scheduled Backup

- Depending on the version of Windows Vista you have, there are two approaches you can take to backing up files: Automatic Backup, which backs up just your files and data; or Complete PC Backup, which backs up everything on your PC, including the operating system and applications

Most secure Windows ever - Windows Defender

- Windows Defender works with Internet Explorer 7 to help you make conscious choices about software installed on your PC by providing always-on protection that monitors key system locations, watching for changes that signal the presence of spy ware.

Most secure Windows ever Windows Firewall

- Windows Firewall is a critical first line of defense to protect your computer against many types of malicious software.
- Properly configured, it can stop many kinds of malware before they can infect your computer or other computers on your network. Windows Firewall, which comes with Windows Vista, is turned on by default and begins protecting your computer as soon as Windows starts.

Windows Internet Explorer 7

- Windows Internet Explorer 7 in Windows Vista, the new version of the popular web browser, represents a major step forward in making everyday web tasks easier.

Making everyday tasks easier

- To help you perform tasks more productively and efficiently, Internet Explorer 7 has been redesigned with new and enhanced capabilities for searching and making use of myriad sources of information.

Application Software

Microsoft office 2000 premium is ok but I would use Microsoft office 2003 or Microsoft office 2007 which on Microsoft office 2007 it has more tools and better template designs but is more complicated than Microsoft office 2003. Microsoft office 2007 comes with

- Microsoft Office Access 2007
- Microsoft Office Excel 2007
- Microsoft Office Outlook 2007 with Business Contact Manager
- Microsoft Office PowerPoint 2007
- Microsoft Office Publisher 2007
- Microsoft Office Word 2007

Microsoft office 2003 comes with

- Microsoft Office Access 2003
- Microsoft Office Excel 2003
- Microsoft Office Outlook 2003
- Microsoft Office PowerPoint 2003
- Microsoft Office Publisher 2003
- Microsoft Office Word 2003

Microsoft office 2003 is hard to get hold of nowadays so the only option I can think of is Microsoft office 2007 and you get on a training course or get a book about Microsoft office 2007.

I would then download internet explorer 8 the reason why I would do this is so you don't need to open up too many internet explorers you just open up new tabs which would make the computer run faster because the more programmes running the slower the computer runs.

Microsoft Office Word – word processing otherwise known as word has facilities to enter text, modify it, move it around, format it (E.G. make it bold or underlined or italics), check it for grammar and spelling errors E.C.T. These facilities of word processors have extended from simple text processing to handling other contents such as tables, charts and graphs.

Its usefulness to organisations has been enhanced by its ability to use templates for standard letters and invoices. Word is mainly used for writing reports and general letters.

However, it has evolved into a powerful tool for creating websites, compiling mail shots and mailing lists.

Microsoft Office Access – There are a load of packages the one that most people would know of is Microsoft Access this software would be used for customer management systems, stock control systems, payroll systems, ordering systems and so on.

Microsoft Office Excel – this software provides the tools for entering text, numeric values and formulae into a matrix of cells to create a computational model for delivering specific calculations .

The data is held in the spreadsheet's rows and columns and the contents can be sorted (E.G. into alphabetic or numeric order). Also the contents can be searched to find a particular value and can also be filtered (E.G. to find out which rows have products with a zero VAT rating) the results can be displayed as a set of figures or they can be displayed pictorially using 2 -D or 3 – D charts.

Microsoft Office Outlook - this software is a Personal Information Manager that is made up primarily of the following components:

The Mail component lets you send, receive and manage email messages. Messages can be sent to other users on your network, or to external contacts with a valid email address, and can include file attachments, shortcuts and hyperlinks to web pages.

The Calendar is used to keep track of appointments and plan meetings with other Outlook users. On a personal level, it can be used to record appointments, events and important dates such as birthdays and anniversaries. On a group level, it can be used to schedule and track meetings with other users at a time convenient to all involved.

The Contacts area is used to maintain address information for all internal and external contacts. The contact list can be used to send messages to contacts, view contact web pages, view maps to the contact's place of work and to record important contact dates such as birthdays.

Additional Components

Tasks provide to-do lists comprising jobs that can be assigned to other users, tracked and scheduled in your calendar. You can check the status of a task, set a priority for each task, and set tasks that recur at specific intervals.

Outlook can also be used to record notes for any textual information. Notes can be posted on your desktop as constant reminders and can be forwarded to other users or included in word processing documents.

The Journal allows you to record interactions with customers by tracking email messages, meetings, tasks and other items such as Word documents and Excel spreadsheets. Telephone conversations and non-computer related work can also be recorded.

Photoshop – A graphics editing program developed and published by Adobe Systems. It is the current and primary market leader for commercial bitmap and image manipulation. Photoshop is the flagship product of Adobe Systems. Photoshop CS4 is the current version it was officially announced on 23 September 2008.

Photoshop revolves around editing pixels, unlike Adobe Illustrator which uses vectors. When an image is rendered into Photoshop, it is compiled by millions of single - coloured pixels. This would be an excellent package for the company as they can edit their pictures with this software for example crop, adjust colour, red eye removal. The better the quality of pictures the better quality on the website.

Antivirus

Antivirus scanning software, or a virus scanner, is a program which examines all files in specified locations and looks at the contents of memory, the operating system, the registry, unexpected program behaviour, and anywhere else relevant with the intention of identifying and removing any malware.

When the antivirus software looks at a file, it refers to a dictionary of known viruses that the authors of the antivirus software have identified. If a piece of code in the file matches any virus identified in the dictionary, then the antivirus software can take one of the following actions:

- Attempt to repair the file by removing the virus itself from the file; quarantine the file (such that the file remains inaccessible to other programs and its virus can no longer spread)
- Delete the infected file.

I would recommend AVG free which you can download for free and it does not cost anything.

Task 2

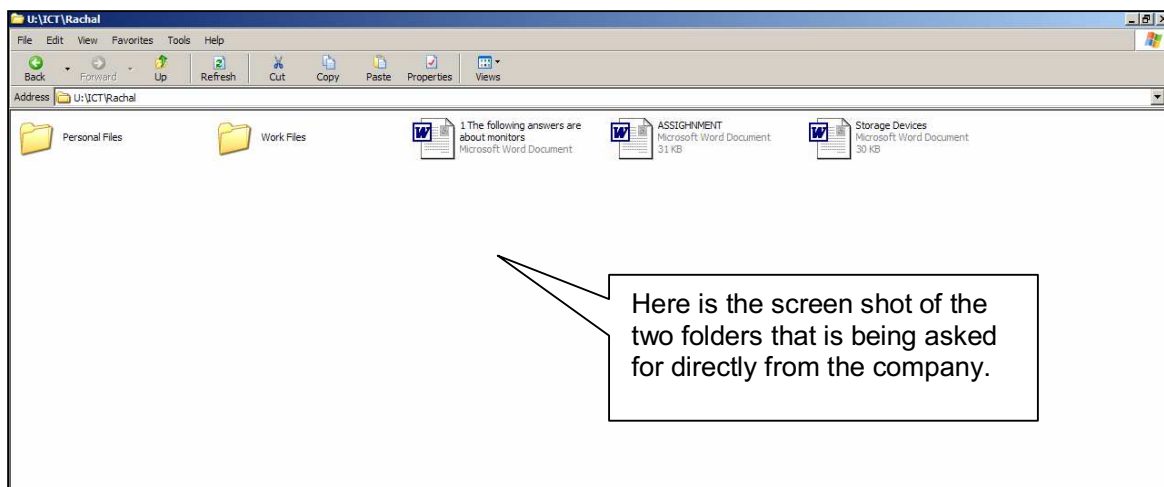
	Dell Studio Hybrid N1073502	Dell Studio Hybrid D101G10
Base	Intel® Core™ 2 Duo Processor T8100 (2.1GHz, 800MHz FSB, 3MB L2 Cache	Intel® Core™ 2 Duo Processor T8100 (2.1GHz, 800MHz FSB, 3MB L2 Cache
Microsoft Operating System	Genuine Windows Vista® Home Premium SP1, 32- bit -English	Genuine Windows Vista® Home Premium SP1, 32- bit -English
Microsoft Application Software	Microsoft® Office 2007 Home and Student/ English - Microsoft® Word, Excel, One Note, PowerPoint	Microsoft® Office 2007 Home and Student/ English - Microsoft® Word, Excel, One Note, PowerPoint
Enhanced Service Packs	1 Year Limited Warranty - Collect & Return	1 Year Limited Warranty - Collect & Return
Colour Choice	Jet Black Colour with Matte Finish	
LCD	17 Widescreen WXGA+ CCFL (1440x900) TFT Display with True Life™	22in E228wfp Widescreen UK/Irish (1680 X 1050) TC099 DVI-D
Memory	4096MB 667MHz Dual Channel DDR2 SDRAM [2x2048]	4096MB 667MHz Dual Channel DDR2 SDRAM [2x2048]
Web Camera	2.0 Mega pixel Integrated Web Camera - CCFL	x
Hard Drive	320GB (5.400rpm) SATA Hard Drive	320GB (5.400rpm) SATA Hard Drive
Video Card	Intel Integrated Graphics Media Accelerator X3100	Intel Integrated Graphics Media Accelerator 3100
Optical Devices	Fixed Internal 8X DVD+/- RW Slot Load Drive including Software	DVD+/- RW Drive
Mouse	Dell™ Bluetooth Travel Mouse	Wireless Keyboard and mouse
Primary Battery	Primary 9-cell 87 WHr Lithium Ion battery	
Keyboard	Internal UK English Qwerty Keyboard	AS MOUSE
Biometric Identification	Biometric Fingerprint Reader Standard	X

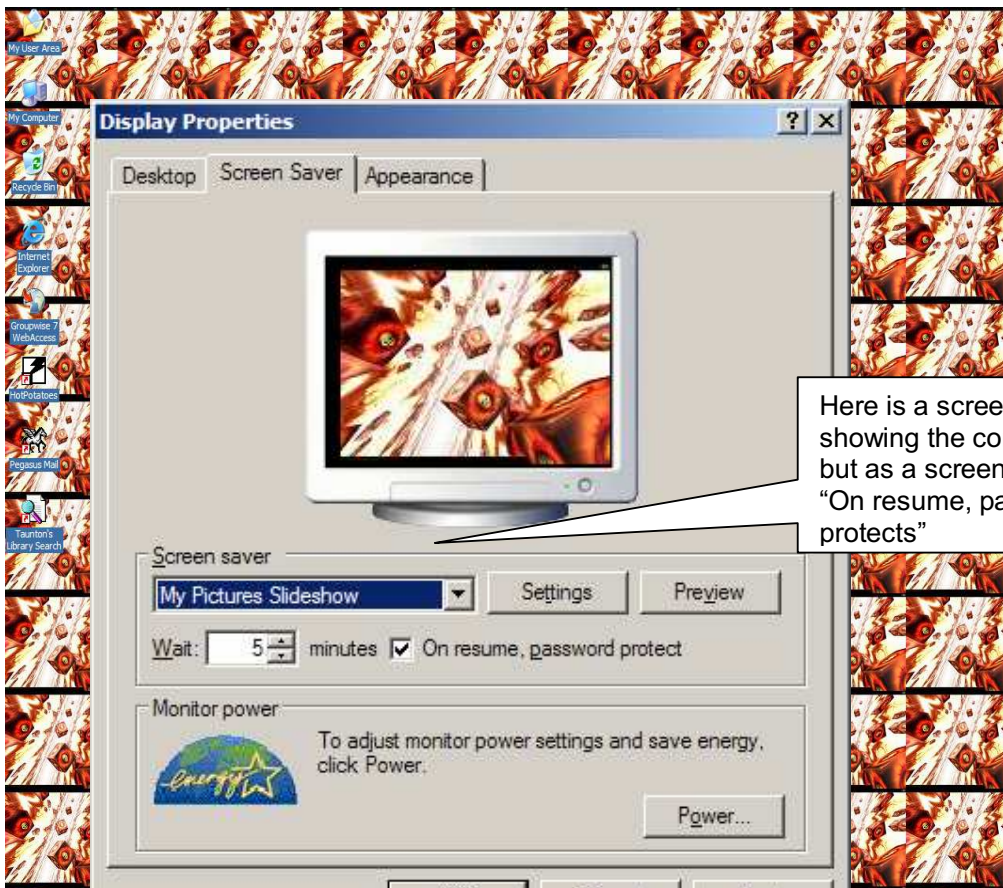
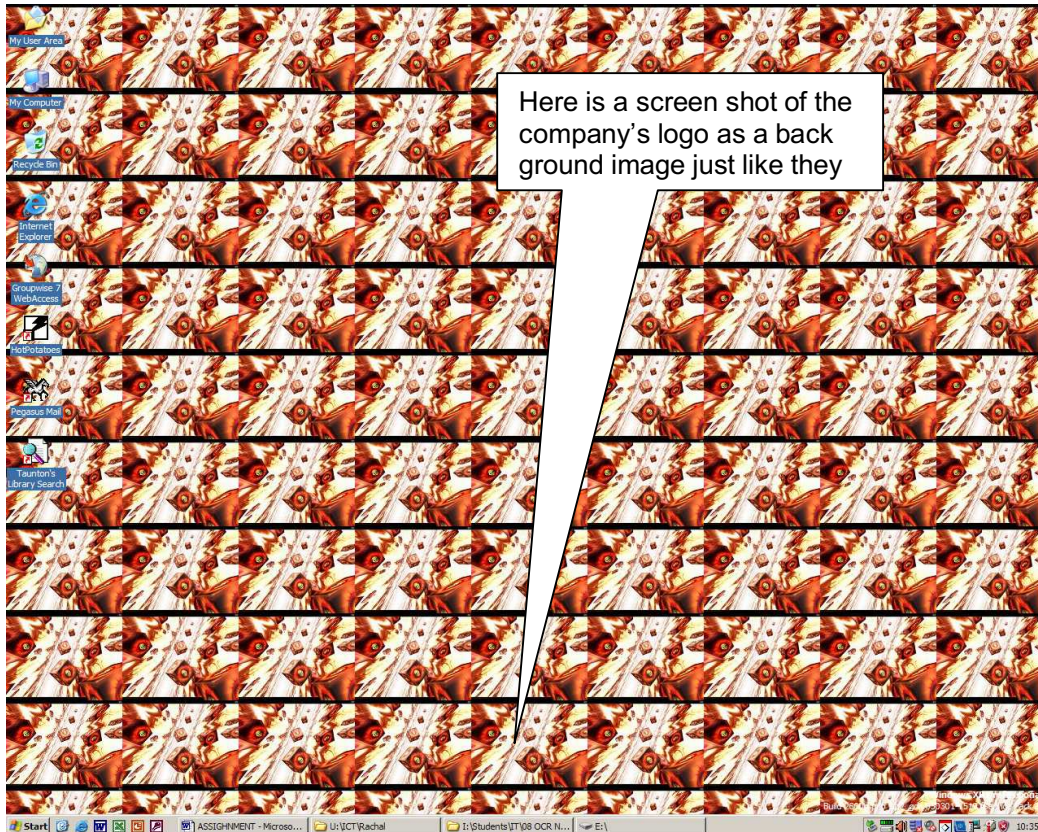
	[Included in Price]	
Cables	1 Meter Power Cord (3 Wire) - UK	1 Meter Power Cord (3 Wire) - UK
Shipping Documents	English - Documentation Studio 1735	English – Documentation inspiron Desktop
Standard Warranty	1Yr Limited Warranty - Collect & Return	1Yr Limited Warranty - Collect & Return
Power Supply	90W Power Adapter (3 Wire)	65W AC Adapter (3 Wire)
Dell System Media Kit	Studio 1735 Resource DVD (Diagnostic & Drivers)	
Dell Printers	Dell™ All-in-One Printer V305w [Included in Price]	Dell™ All-in-One Printer V305w [Included in Price]
Printer Driver	Dell V305 FI Printer Drivers for all Dell systems	Dell V305 FI Printer Drivers for all Dell systems
Cables	USB 2.0 3m Black Printer Cable	USB 2.0 3m Black Printer Cable
Printer Ink Cartridges	Dell V305 Standard Colour Ink Cartridge	ell V305 Standard Colour Ink Cartridge
Base	Dell All-In-One Wireless Inkjet Printer V305 (order with system)	Dell All-In-One Wireless Inkjet Printer V305 (orde r with system)
Carrying Cases	Targus Campus XL Backpack for laptops up to 17" - Black	x
Accessories	Pentax Optio M40 Digital Compact Camera - Easy to use and high resolution of 8.0 megapixels	Pentax Optio M40 Digital Compact Camera - Easy to use and high resolution of 8.0 megapixels
Bluetooth	Dell Wireless 370 Bluetooth Module	x
Wireless Networking	Dell Wireless 1397 Mini Card (802.11 b/g)	Dell™ Wireless 1505 Wireless-N Minipci Card EUR
USB Memory Keys	Lexar JumpDrive FireFly USB Flash Drive - 4GB	x
Adobe	Adobe® Photoshop® Elements 6 (English)	Adobe® Photoshop® Elements 6 (English)
Accidental Damage Support	3Yr Accidental Damage Support	3Yr Accidental Damage Support
Online Backup	DataSafe Online Backup 100GB	DataSafe Online Backup 50GB
Protect your new PC	Norton™ Internet Security™ 2008 3 year Version	x

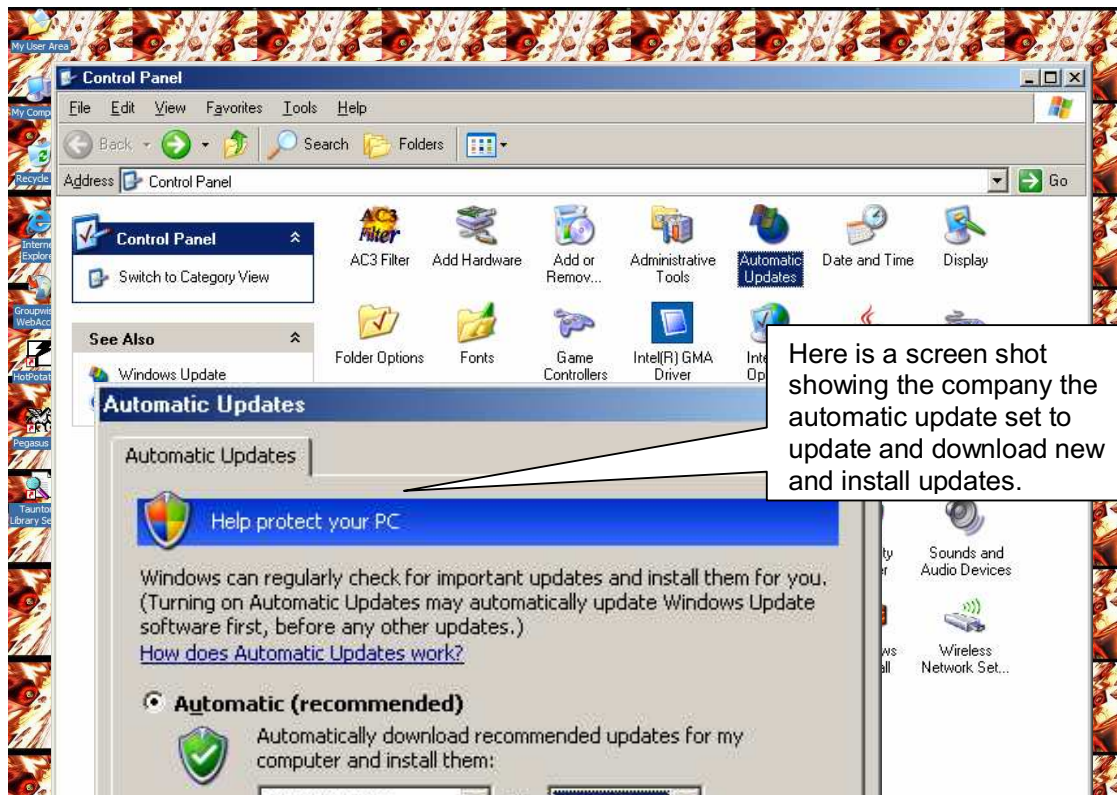
Which One Out Of the Two Specs Which One I Would Chose And Why I Would Recommend?

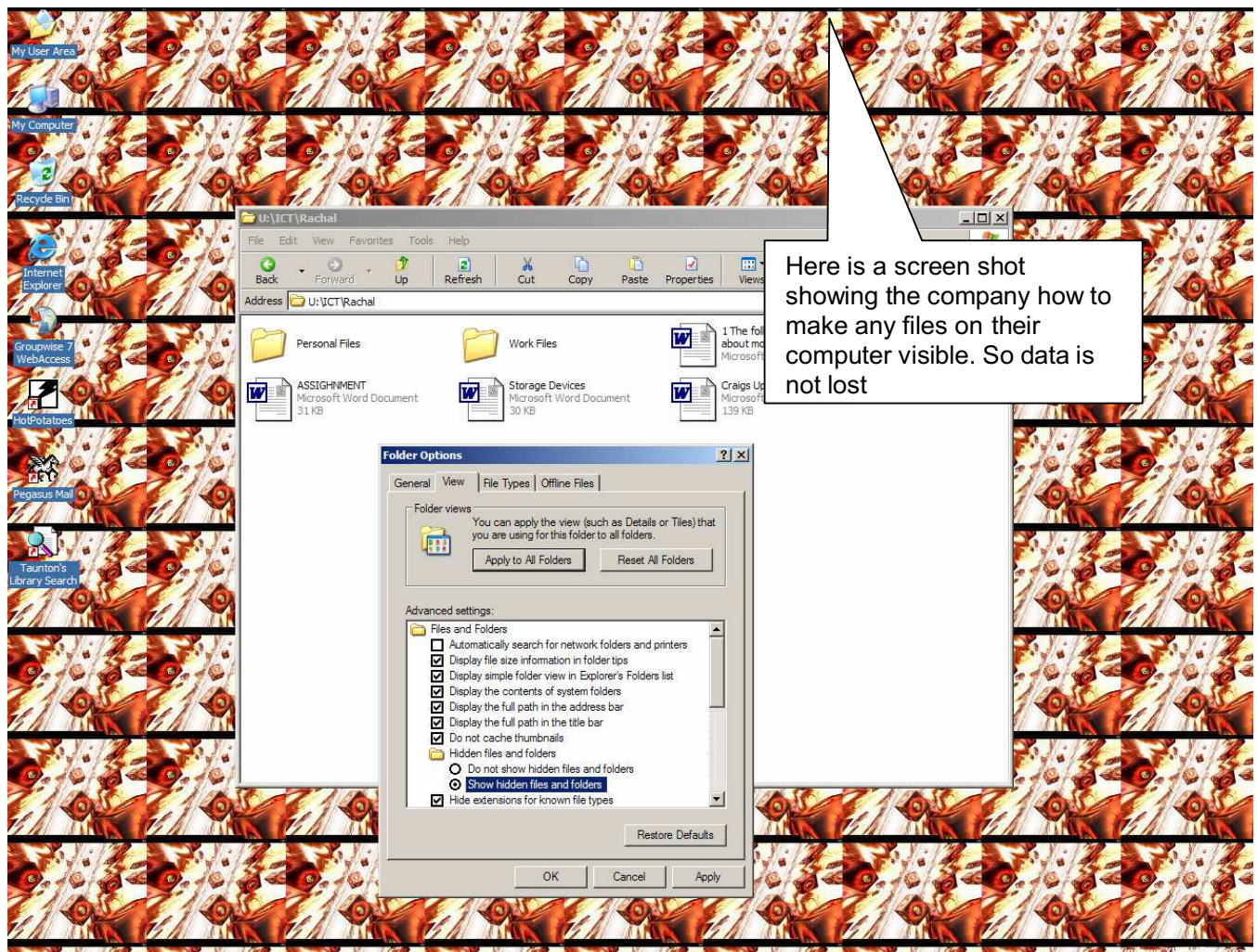
Depending on the company for time being the Dell Studio Hybrid D101G10 will do the company fine, however later on the comp any might consider investing into a laptop that is why I have chosen one laptop and one pc.

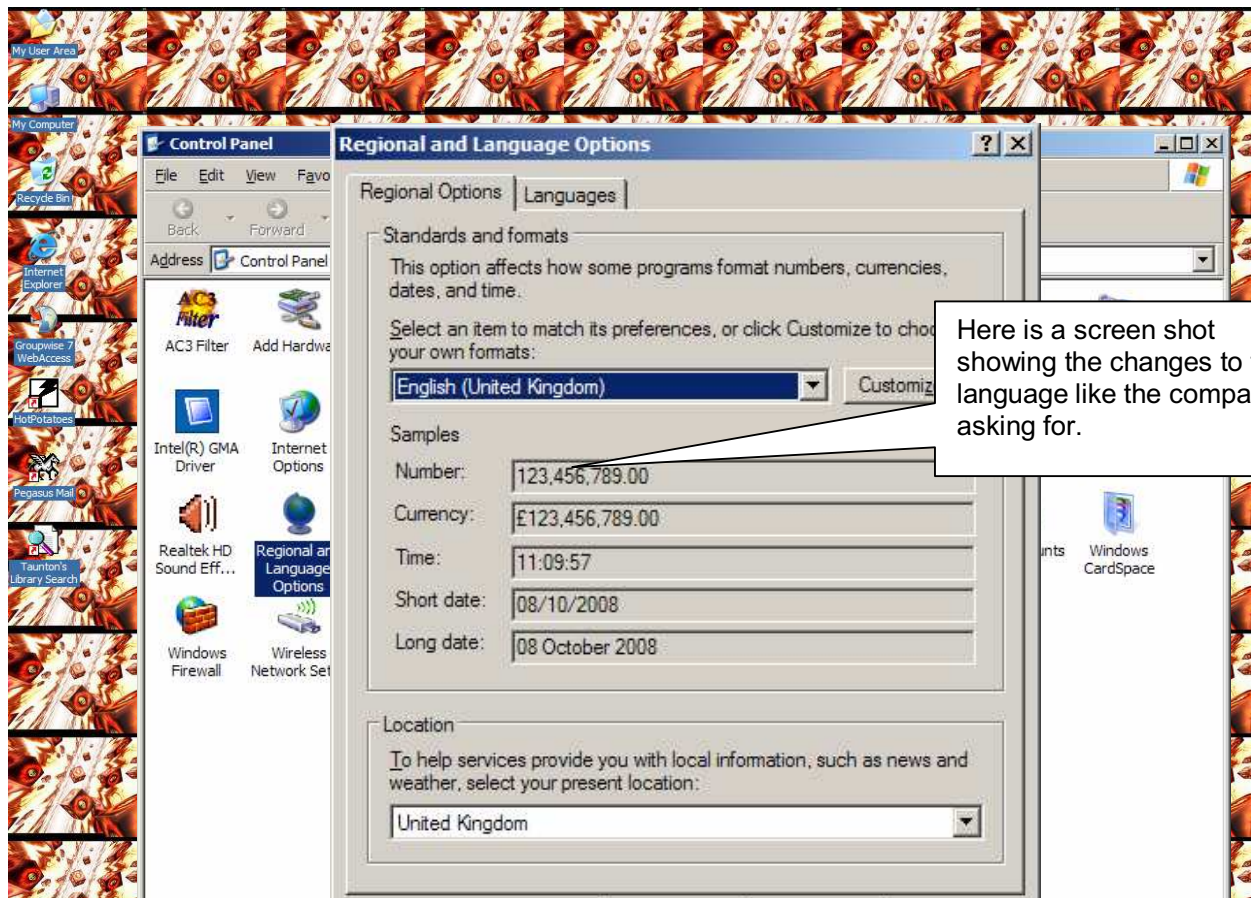
Task 3

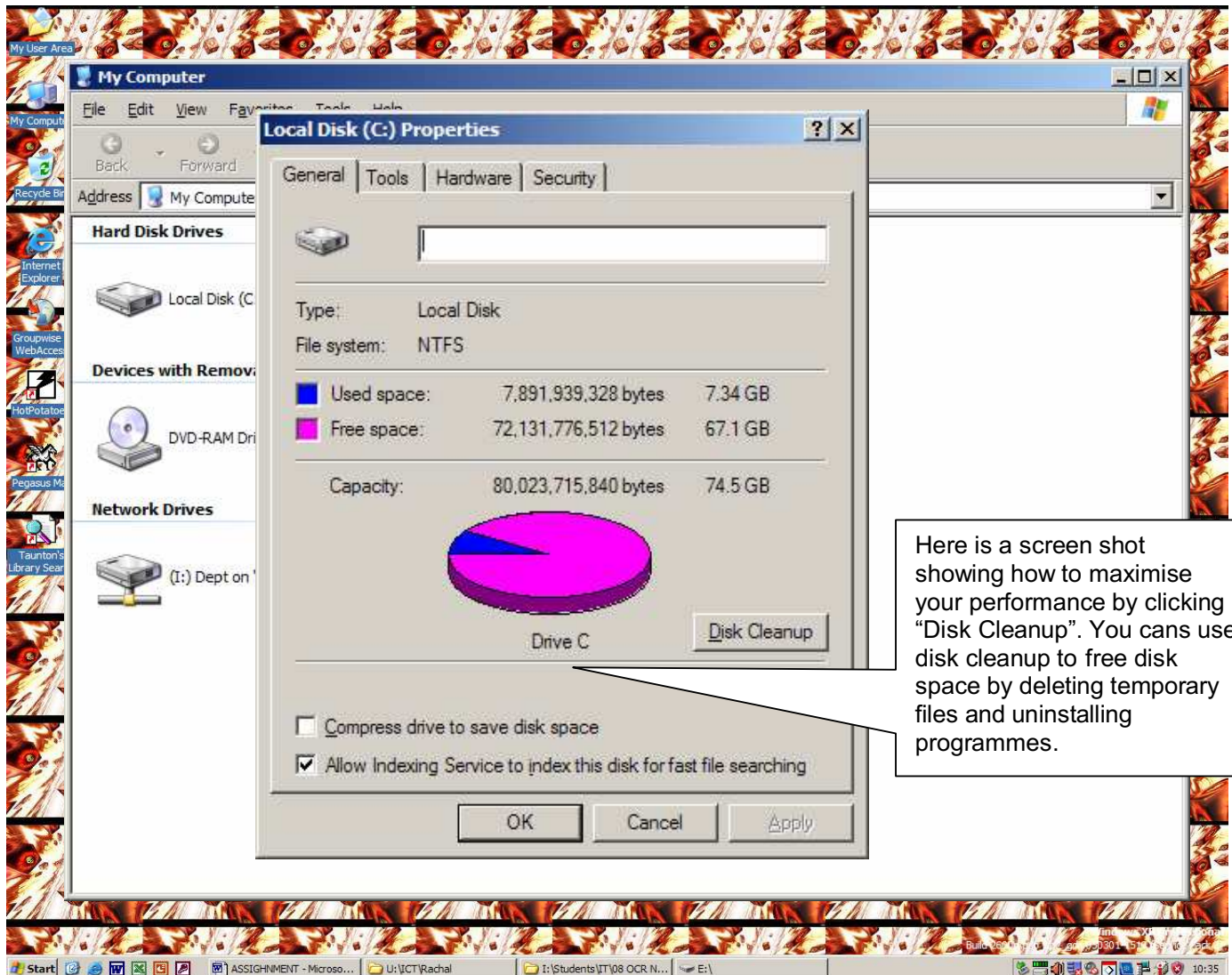






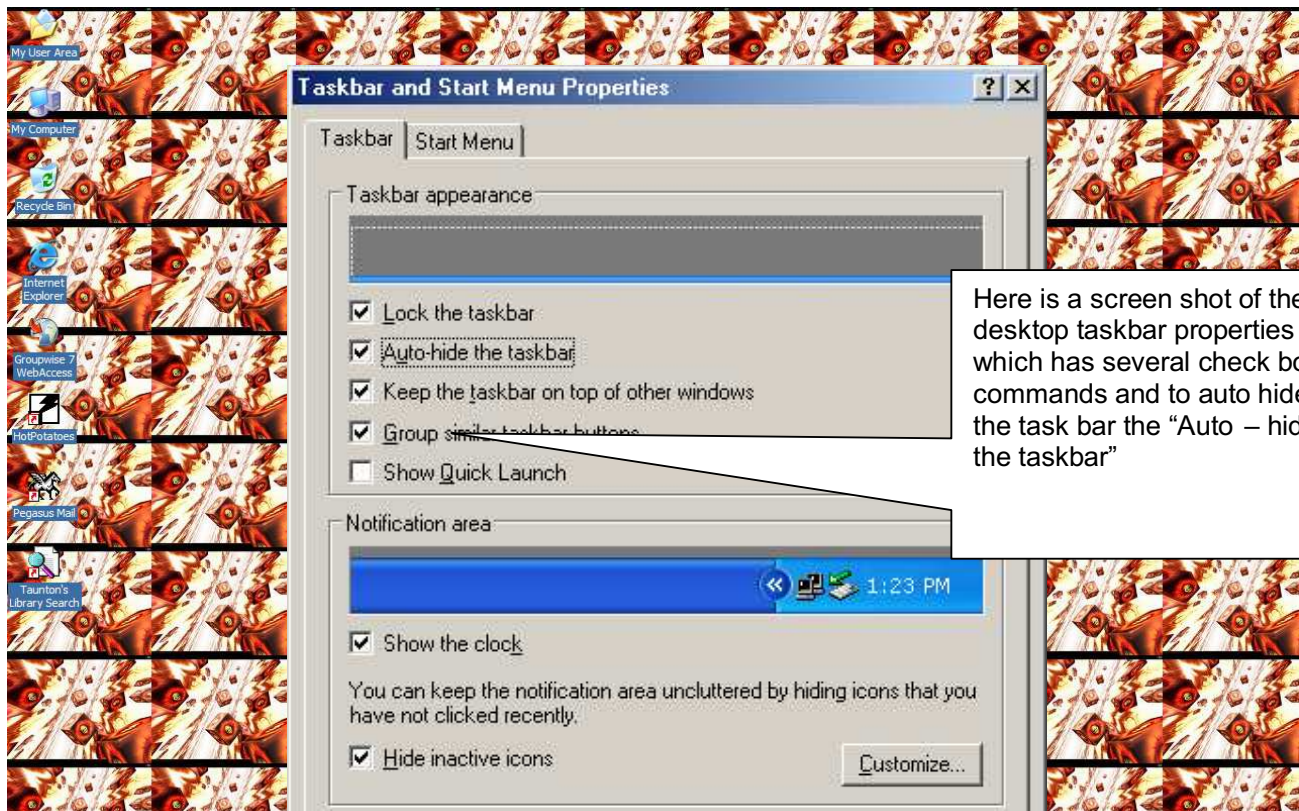




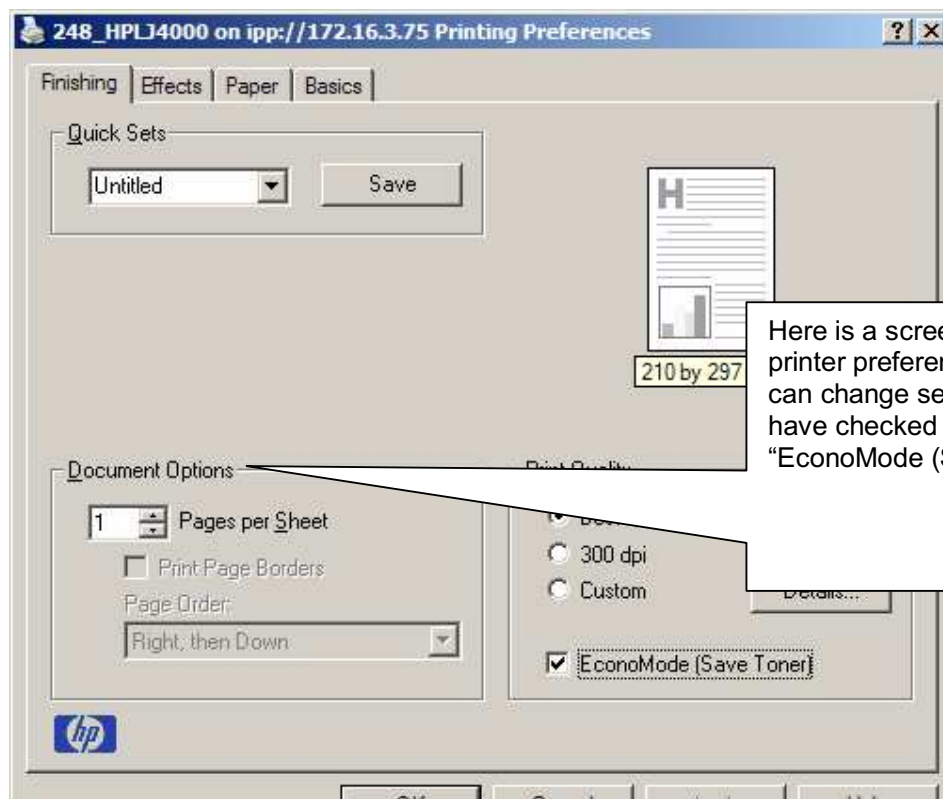




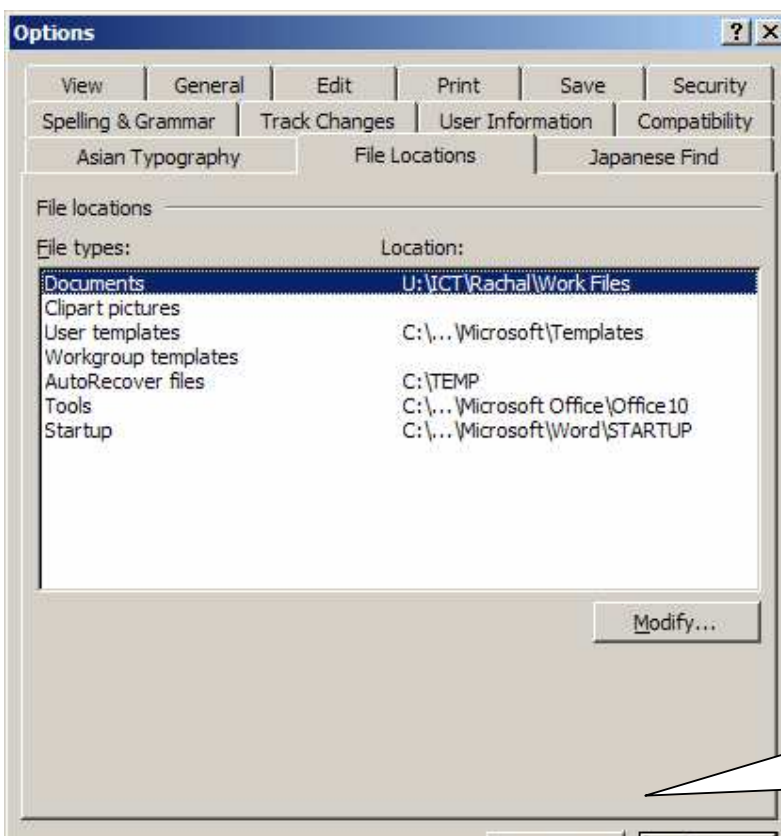
Here is a screen shot showing Disk Cleanup set to clean up monthly.



Here is a screen shot of the desktop taskbar properties which has several check box commands and to auto hide the task bar the "Auto - hide the taskbar"



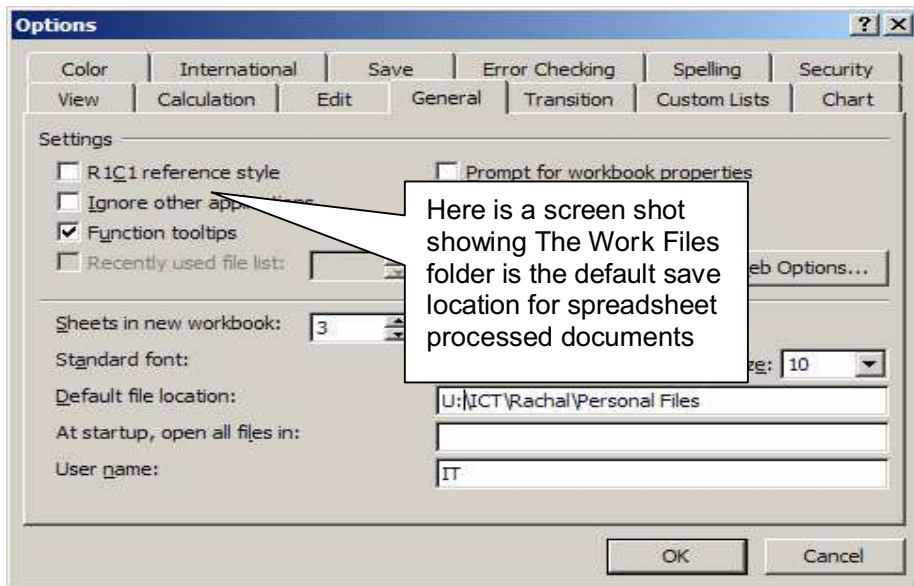
Here is a screen shot of the printer preferences where you can change settings. Here i have checked a box "EconoMode (Save Toner)"

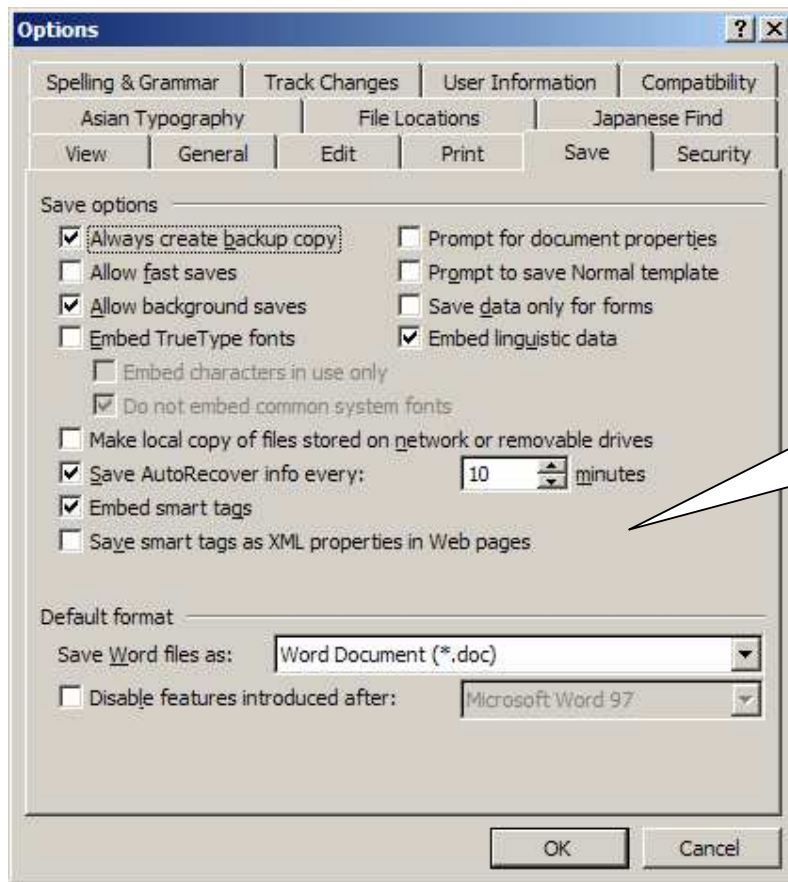


Task 4

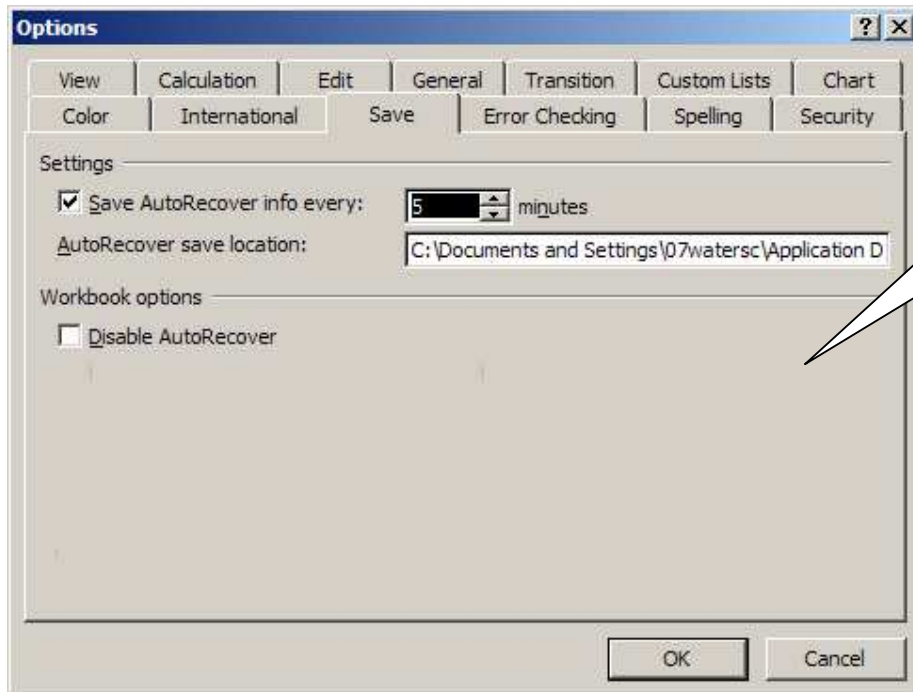
"Configure applications software".

Here is a screen shot showing The Work Files folder is the default save location for Word processed documents

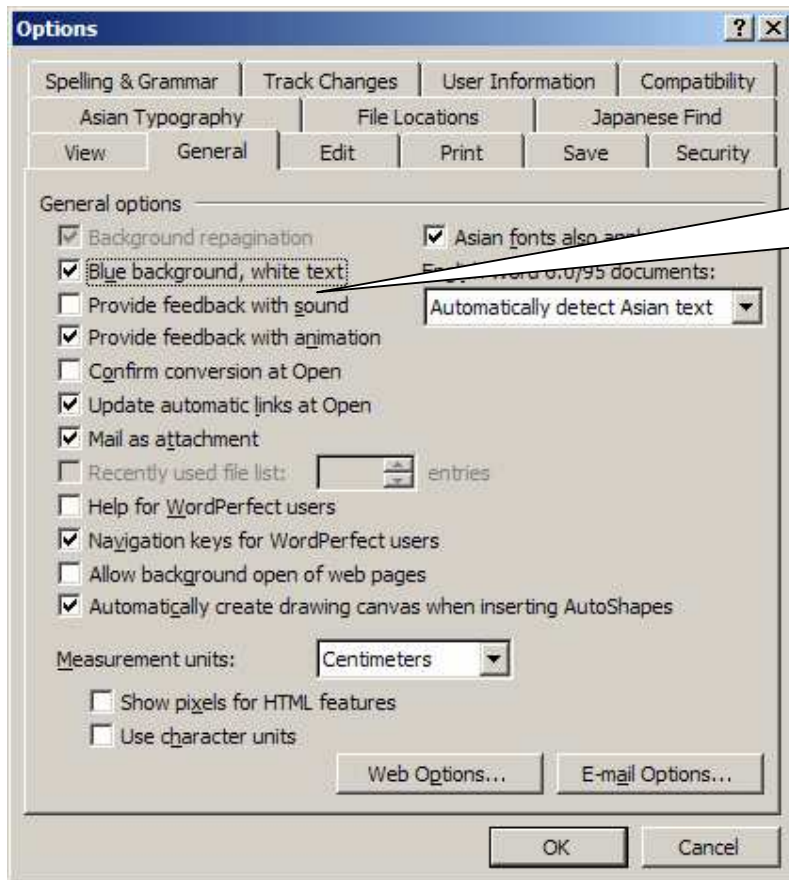




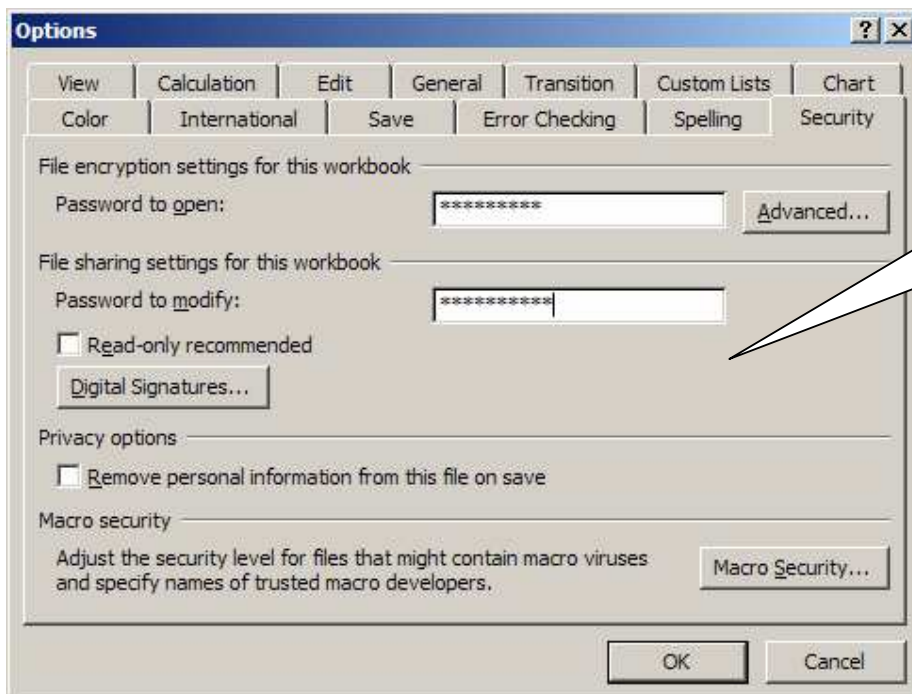
Here is a screen shot showing Backup copies of word processed documents should always be created when files are saved



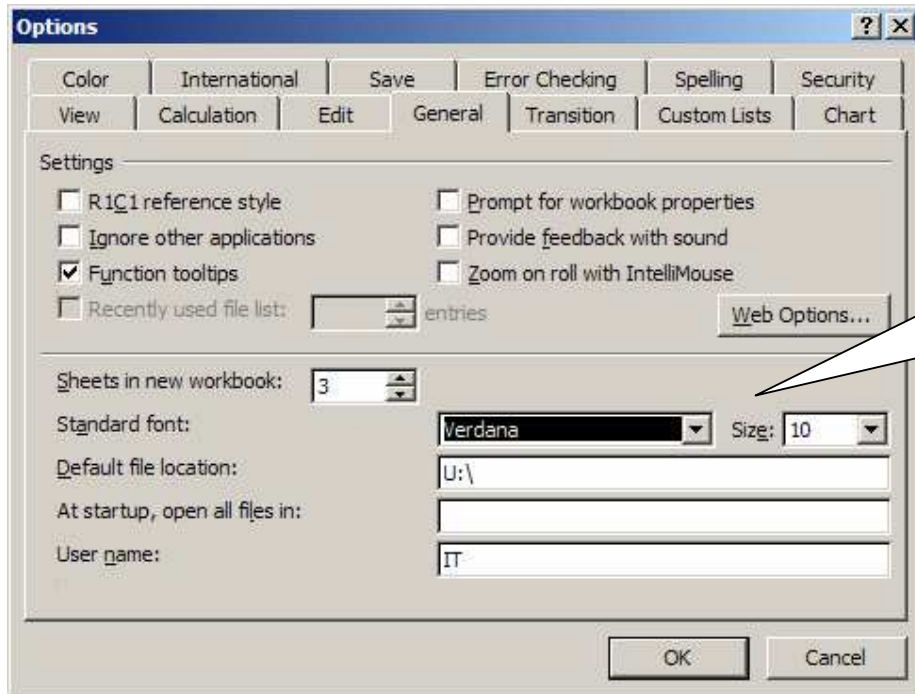
Here is a screen shot showing Spreadsheet documents should auto recover every 5 minutes



Here is a screen shot showing white word processed text on a blue background. Below in the corner is the final view.



Here is a screen shot showing spreadsheet can only be opened with a password.



Here is a screen shot showing all spreadsheet documents should have a default font of Verdana, size 10.