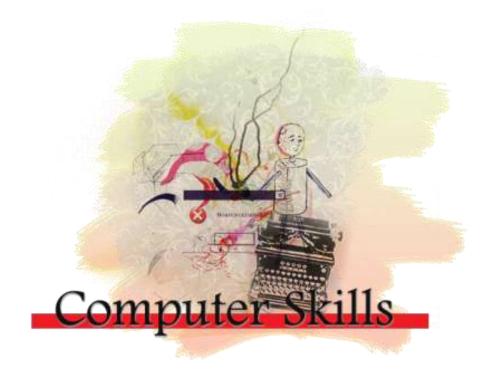
Computer component and their functions

Identifying specialized input/output devices



Identifying specialized input devices

- Game Controllers
- Digital Cameras: Still and Video
- Scanners
- Graphics Tablets
- Bar Code Reader
- Radio Frequency ID(RFID)
- Touch Screen
- Sensors and Probes
- Remote Controls
- Security Devices
- Specialized Input Devices



Identifying specialized output devices

- Projectors
- Plotters
- Voice synthesizers
- Control devices/Robots



Lesson Four

Connecting Devices to A Computer

- Peripheral connected to the back of system unit through a port
- Port is a general term for the connectors into which wires are plugged
- Most peripheral devices now use USB connections



- Universal Serial Bus
 - Designed to accept a variety of devices (keyboard, mouse, printer,....)
 - Provide some amount of electrical power
 - Facilitates assembling and moving a computer
 - Versions of USB
 - USB 1.1
 - USB 2.0(newer computers, 40 times faster)



- Universal Serial Bus
 - Types of USB
 - Type A USB (mouse: key for one orientation)

B

• Type B USB (digital camera: no connecting wire)





- USB Hub
 - Used to provide multiple USB ports(up to 127)
 - Hot-swappable : safely plug/remove without shutting down the host computer
 - Some of them Provide

additional power





- Wireless Devices
 - Not directly wired to system unit (keyboard, mouse)
 - Use radio waves or infrared light (receiver plugged with USB)
 - Required batteries replaced periodically
 - Others use infrared light instead of radio waves
 - Standards:
 - Wireless fidelity(WiFi)
 - enables computers and printers to be networked together
 - Bluetooth (very short distances), used to connect:
 - cell/smartphones to hands free headsets
 - MP3 players and headphones
 - Some Wireless keyboard and mice
 - If no built in Bluetooth a dongle is required





- FireWire
 - Apple computer version of IEEE for high performance serial bus
 - Similar to USB



- Advantage: use with device require very high rates of data transfer(digital video camera)
- Transfer rate: 400 megabits per second(USB 2.0), now 800 megabits per second



- Small Computer System Interface (SCSI)
 - Older connection method (1986)
 - Recent speeds 1.280 megabit per seconds
 - Need device called a terminator at the end of the bus
- Device manager
 - Provide list of internal and external devices
 - Tells if any of them having problem
 - Open from control panel

