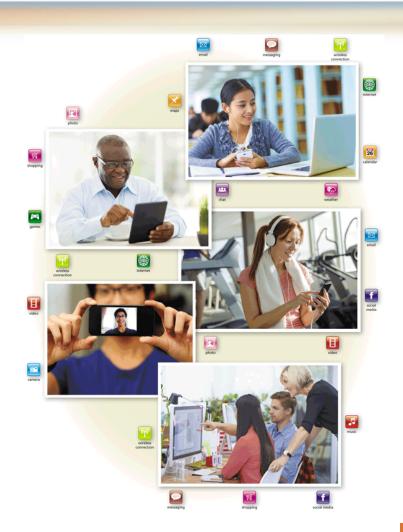
COMPUTERS TODAY

Malik Adnan Jaleel

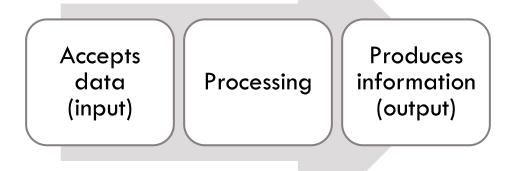
Today's Technology

- Because technology changes, you must keep up with the changes to remain digitally literate
- Digital literacy involves
 having a current
 knowledge and
 understanding of
 computers, mobile devices,
 the web, and related
 technologies



Computers

 A computer is an electronic device, operating under the control of instructions stored in its own memory



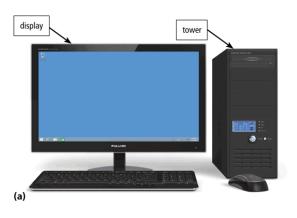
Computers

- Laptop
- □ Tablet
- Desktopand All-in-One





Server







Mobile and Game Devices

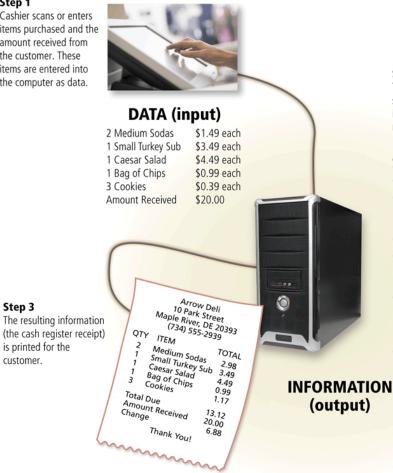


Step 1

Step 3

customer.

Cashier scans or enters items purchased and the amount received from the customer. These items are entered into the computer as data.



Step 2

The computer receives the entered data, stores it, processes the data into information (the receipt), and stores the resulting information.

STORAGE and PROCESSES

- · Stores entered data.
- Computes each item's total price by multiplying the quantity ordered by the item price (i.e., 2 * 1.49 = 2.98).
- Organizes data.
- Sums all item total prices to determine order total due from customer (13.12).
- Calculates change due to customer by subtracting the order total from amount received (20.00 - 13.12 = 6.88).
- Stores resulting information.

 A keyboard contains keys you press to enter data and instructions into a computer or mobile device











- A pointing device is an input device that allows a user to control a small symbol on the screen called the pointer
- Some mobile devices and computers enable you to speak data instructions using voice input and to capture live full-motion images using video input









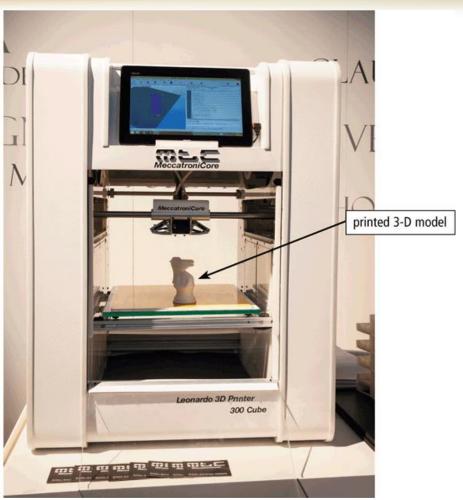
 A scanner is a light-sensing input device that converts printed text and images into a form the computer can

process



- An output device is any hardware component that conveys information from a computer or mobile device to one or more people
- A printer is an output device that produces text and graphics on a physical medium, such as paper or other material
 - A 3-D printer can print solid objects, such as clothing, prosthetics, eyewear, implants, toys, parts, prototypes, and more

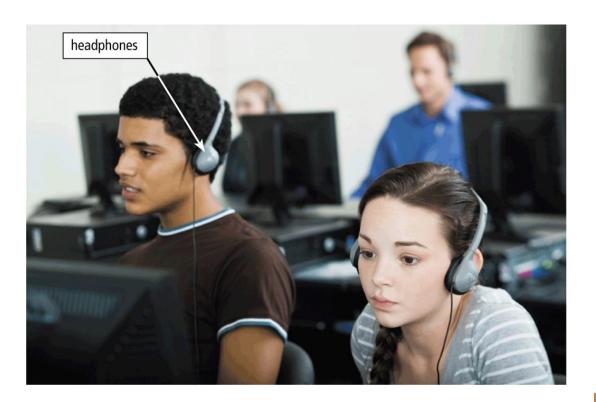




A display is an output device that visually conveys text,
 graphics, and video information



- Speakers allow you to hear audio such as music, voice, and other sounds
 - Earbuds
 - Headphones



Memory consists of electronic components that store instructions waiting to be executed and the data needed by those instructions

A computer keeps data, instructions, and information on storage media

A **storage device** records (writes) and/or retrieves (reads) items to and from storage media



Hard Disk



Solid-State Drive



USB Flash Drive



Memory Card



Optical Disc



Cloud Storage

 The Internet is a worldwide collection of computer networks that connects millions of businesses, government agencies, educational institutions, and individuals

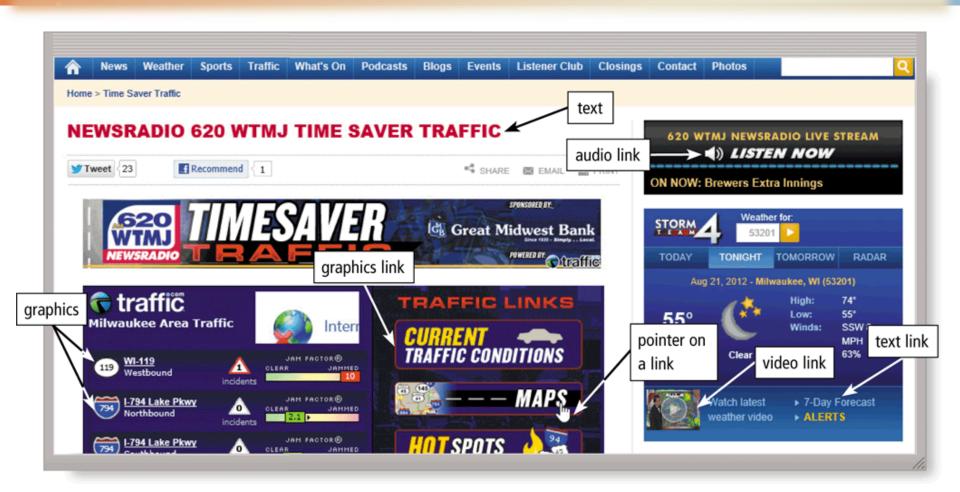


The World Wide Web (or web, for short) is a global library of information available to anyone connected to the Internet

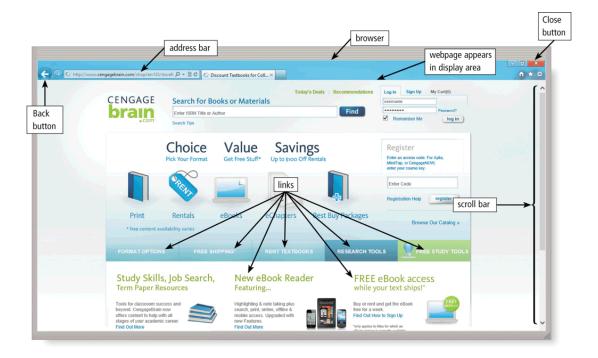
The **web** consists of a worldwide collection of electronic documents, each of which is called a **webpage**

A website is a collection of related webpages

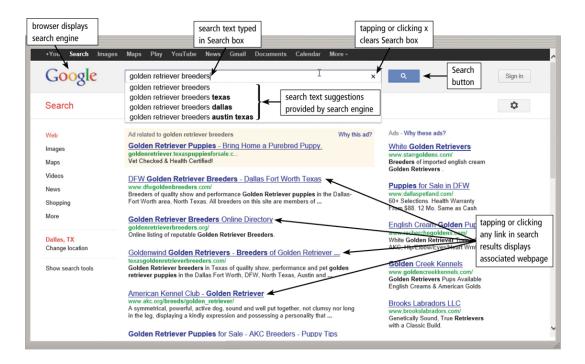
A web server is a computer that delivers requested webpages to your computer



 A browser is software that enables users with an Internet connection to access and view webpages on a computer or mobile device



 A search engine is software that finds websites, webpages, images, videos, news, maps, and other information related to a specific topic



 An online social network encourages members to share their interests, ideas, stories, photos, music, and videos with other registered users



Digital Safety and Security

 It is important that users protect their computers and mobile devices

Viruses and
Other
Malware

Privacy

Health Concerns Environmental Issues

Digital Safety and Security

- Green computing involves reducing the electricity consumed and environmental waste generated when using a computer
- Strategies include:
 - Recycling
 - Using energy efficient hardware and energy saving features
 - Regulating manufacturing processes
 - Extending the life of computers
 - Immediately donating or properly disposing of replaced computers

Programs and Apps

 Software, also called a program, tells the computer what tasks to perform and how to perform them



System Software

- Operating system
- Tools



Applications

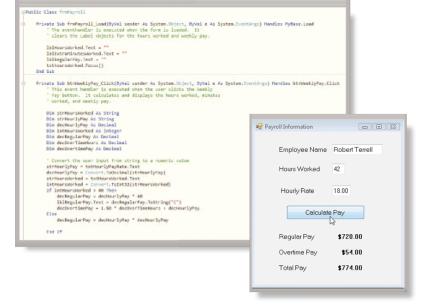
Programs and Apps

- Installing a program is the process of setting up the program to work with the computer, mobile device, printer, and/or other hardware
- Once installed, you can run a program so that you can interact with it
- You interact with a program through its user interface

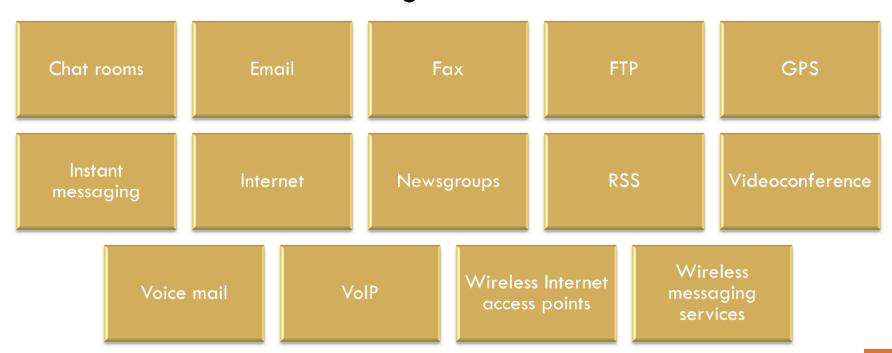
Programs and Apps

A software developer, sometimes called a developer or programmer, is someone who develops programs and apps or writes the instructions that direct the computer or mobile device to process data into

information



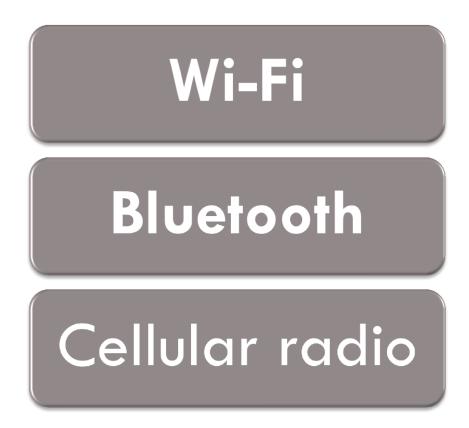
In the course of a day, it is likely you use, or use information generated by, one or more of these communications technologies



 A communications device is hardware capable of transferring items from computers and devices to transmission media and vice versa



Examples of wireless communications technologies include:



 A network is a collection of computers and devices connected together, often wirelessly, via communications devices and transmission media



Home Networks

- Connect to the Internet
- Share a single high-speed Internet connection
- Access photos, music, videos, and other content
- Share devices
- Play multiplayer games
- Connect game consoles to the Internet
- Subscribe to and use VolP
- Interact with other devices in a smart home

Business Networks

- Facilitate communications
- Share hardware
- Share data, information, and software

Technology Uses

Retail Education Finance Government Health Care Travel **Entertainment** Science **Publishing** Manufacturing

Technology Users



Home User



Small/Home Office User



Mobile User



Power User



Enterprise User