



Identify generalpurpose applications

Describe office suites, cloud suites, specialized suites, and utility suites. Describe word processors, spreadsheets, presentation programs, and database management systems.

Learning Outcomes

Describe mobile apps ,app stores and identify software suites.

Identify specialized applications.

Describe graphics programs, web authoring programs, and other specialized professional applications.



INTRODUCTION

Basic application software are known as general purpose applications and productivity applications.

These programs are widely used in nearly every discipline and occupation.

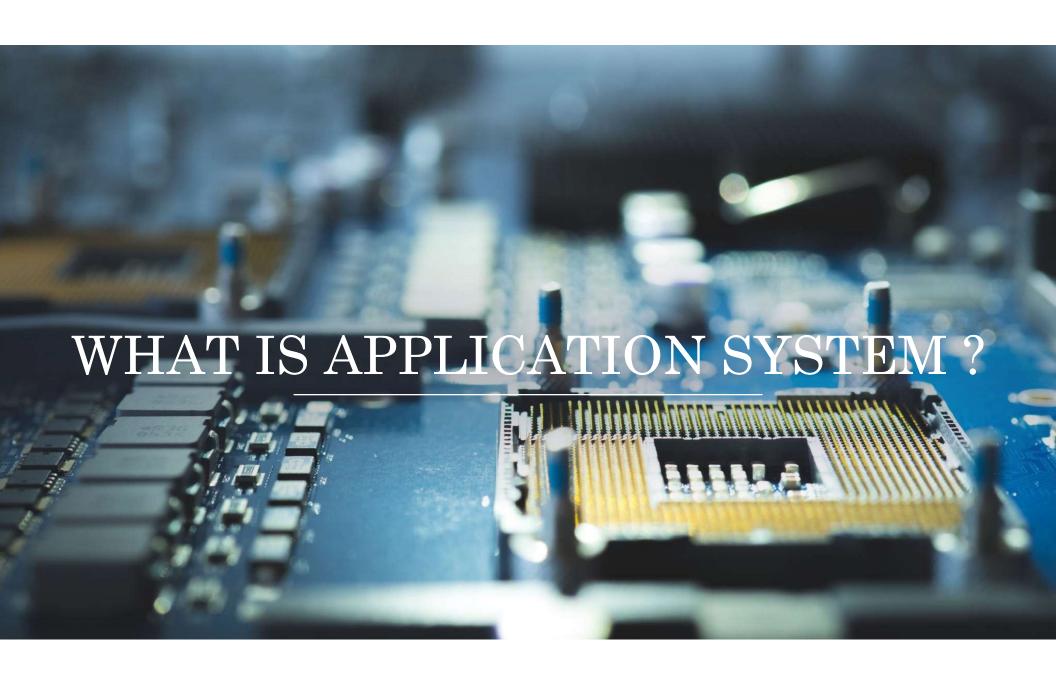


Database software A









<u>Application Software</u> is a program or group of programs designed for end users.

Each program is designed to assist the user with a particular process, which may be related to productivity, creativity, and communication.

Functions:

- managing information
- manipulating data
- •constructing visuals
- •coordinating resources
- calculating figures

Category:



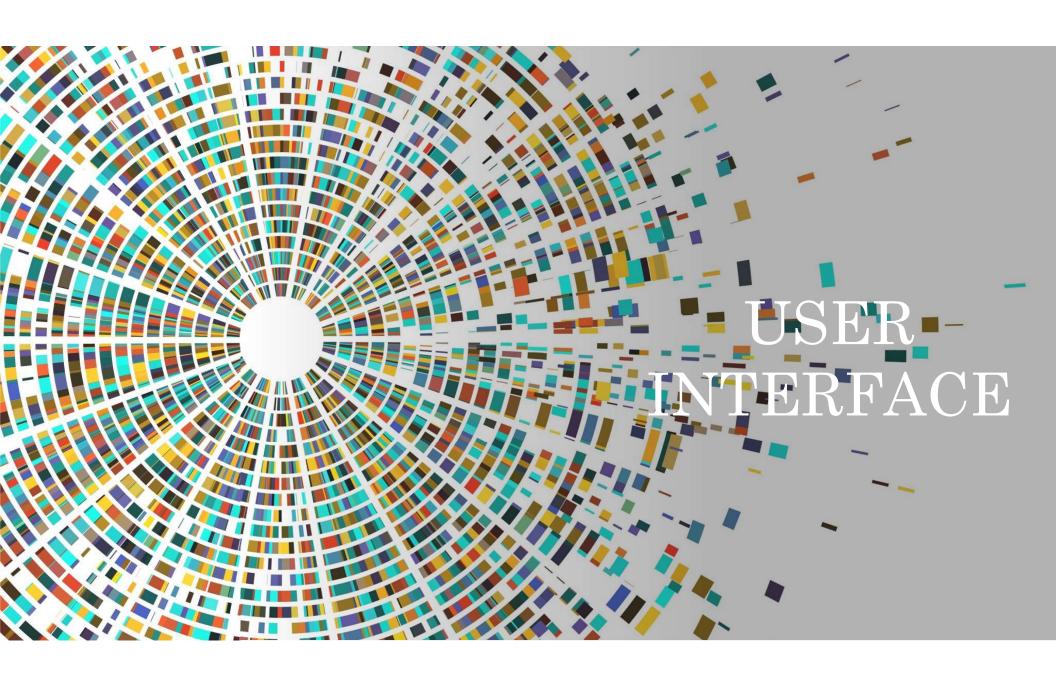
General Purpose Applications



Specialized Applications



Mobile Apps





The user interface (UI) is the point of human-computer interaction and communication in a device.



Features

- Buttons
- Checkbox
- Comment
- Icon
- Loader
- Notification
- Search field
- Tab bar

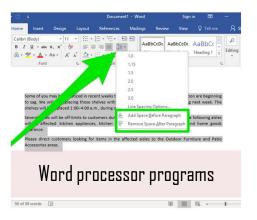


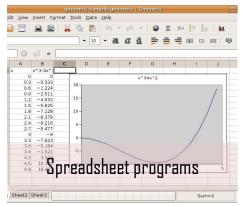
What makes a GOOD UI?

- A clear interface helps prevent user errors, makes important information obvious, and contributes to ease of learning and use.
- A consistent interface allows users to apply previously learned knowledge to new tasks.
- Effective applications are both consistent within themselves and consistent with one another.



General Purpose Applications











Word processor program

A device or computer program that provides for input, editing, formatting and output of text, often with some additional features.

Functions

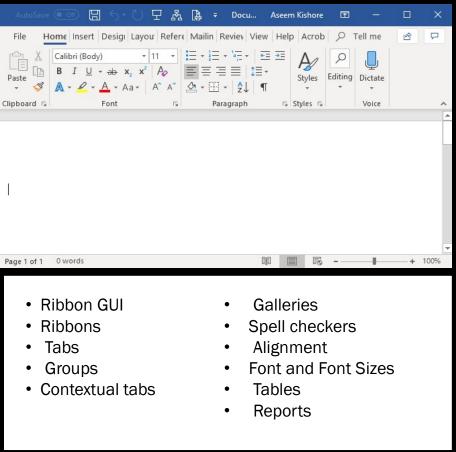
- Creating, editing, saving and printing documents.
- Copying, pasting, moving and deleting text within a document.
- Formatting text, such as font type, bolding, underlining or italicizing.
- Creating and editing tables.
- Inserting elements from other software, such as illustrations or photographs.
- Correcting spelling and grammar.

Example

Microsoft Word



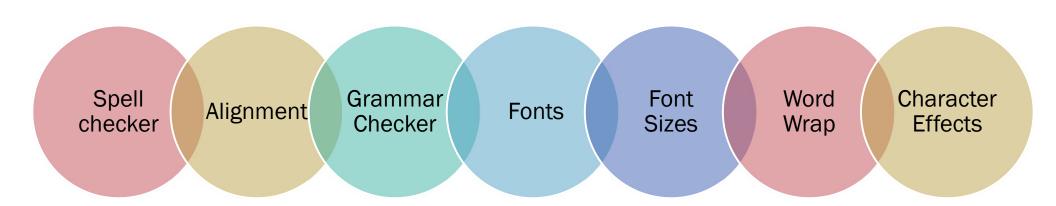






CREATING A FLYER

Flyer Features

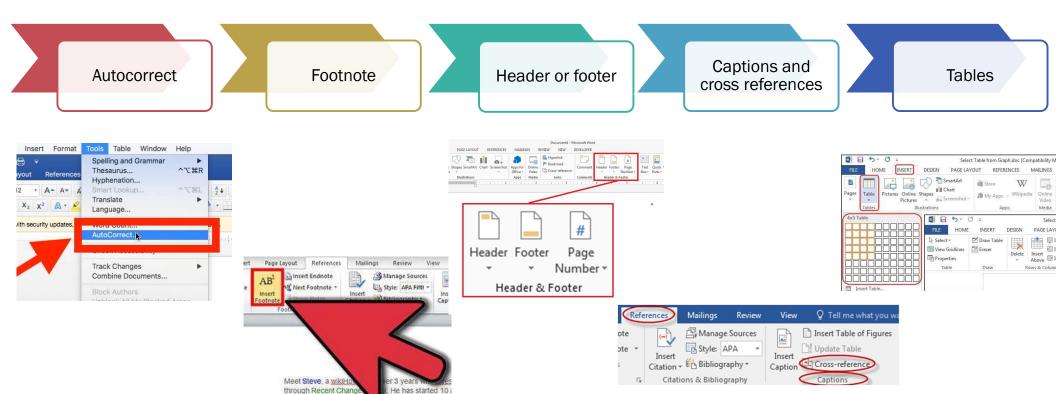


CREATING A REPORT

True to his name, the firs



Features :



Spreadsheet Programs

- ❖A computer application for organization, analysis and storage of data in tabular form.
- ❖ Developed as computerized analogs of paper accounting worksheets.
- ❖ The program operates on data entered in cells of a table.

Example -Microsoft Excel (most widely use)

- -Google Sheets
- -Apple Numbers
- -OpenOffice Calc
- -Corel Quattro Pro
- -Lotus Symphony
- -OpenOffice



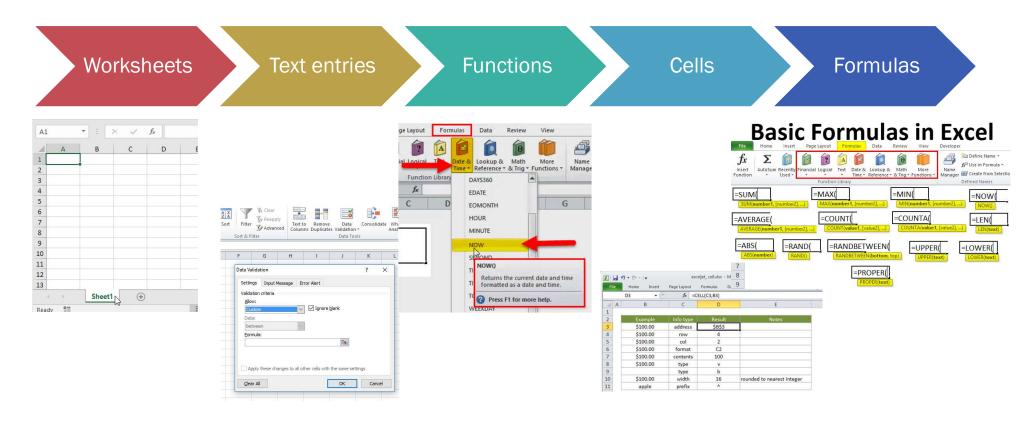






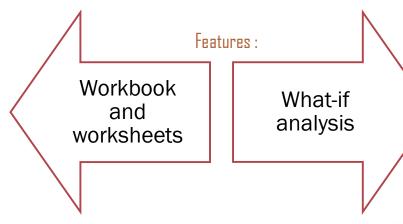


Features:

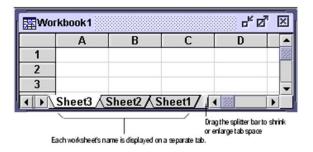


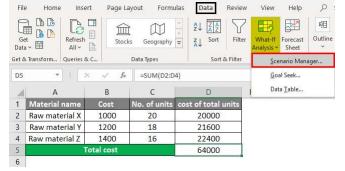
ANALYZING YOUR DATA

- ☐ The worksheet is single page spreadsheet or page, where you can write, edit and manipulate data
- □ The collection of such worksheets is referred as a workbook.



☐ The process of changing the values in cells to see how those changes will affect the outcome of formulas on the worksheet.







PRESENTATION GRAPHIC PROGRAMS

- Combine a variety of visual objects to create visually interesting presentations
- A software package used to display information in the form of a slide show.

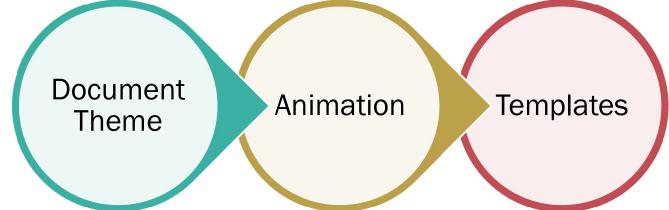
Example - Microsoft PowerPoint

- -OpenOffice Impress
- -Apple Keynote
- -Google Slides
- -Corel Presentations
- -Harvard Graphics



CREATING A PRESENTATION

Features:









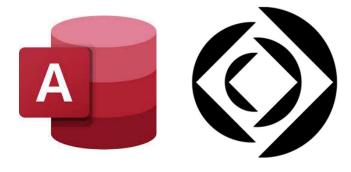
DATABASE MANAGEMENT SYSTEMS (DBMS)



- A collection of related data
- Electronic equivalent of a file cabinet

Example - Microsoft Access

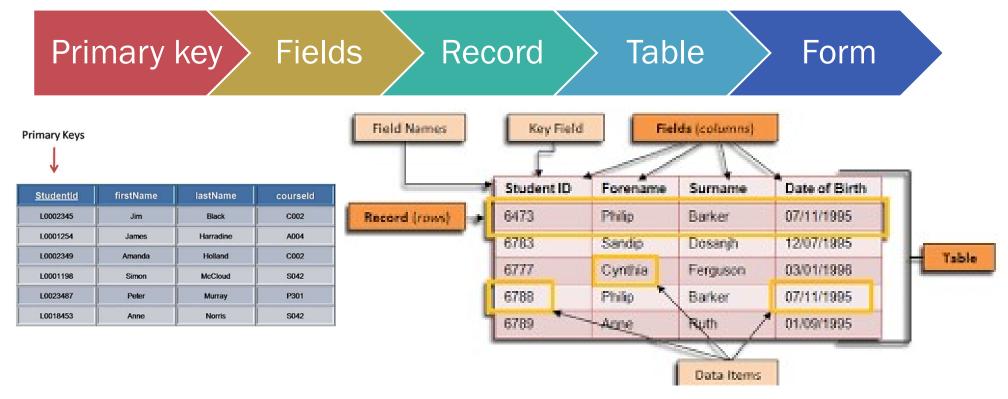
- -OpenOffice Base
- -Apple FileMaker
- -Google Obvibase

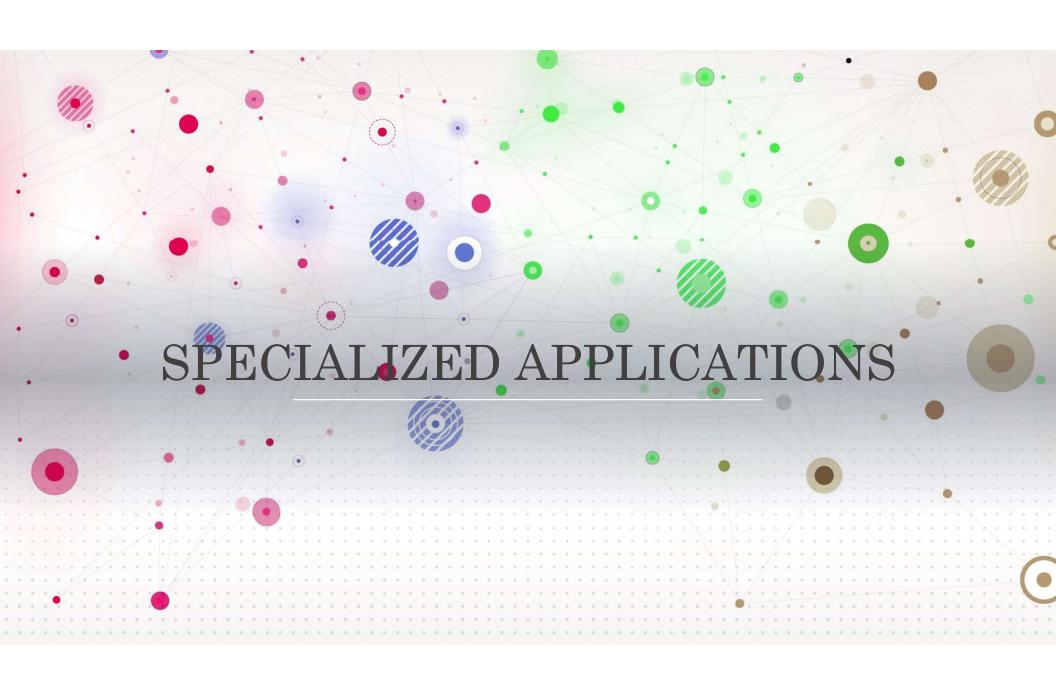


CREATING A DATABASE

o FIRST steps is to plan.

Features:





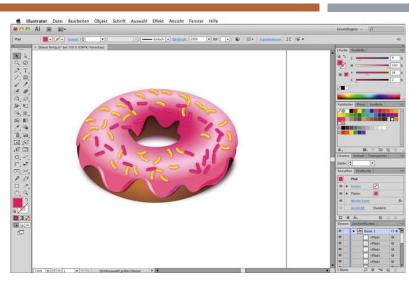


SPECIALIZED APPLICATIONS

- Program that more narrowly focused on specific disciplines and occupations.
- That is specially designed for an individual or company's specific needs.
- Competent end users need to be aware of specialized applications such as:
 - Graphics Programs
 - Audio and Video editing software
 - Multimedia
 - Web Authoring
 - Artificial Intelligence.

GRAPHICS PROGRAMS

- Widely used in graphic arts like photographs, drawings, Line Art.
- Example:
 - Desktop Publishing Programs
 - Image Editing Programs
 - illustration Programs
 - Image Galleries









- Also known as Page Layout Programs
- mix text and graphics to create professional publications such as brochures, newsletters, newspapers and textbooks.
- Popular programs:
 - Adobe InDesign
 - Microsoft Publisher
 - QuarkXPress

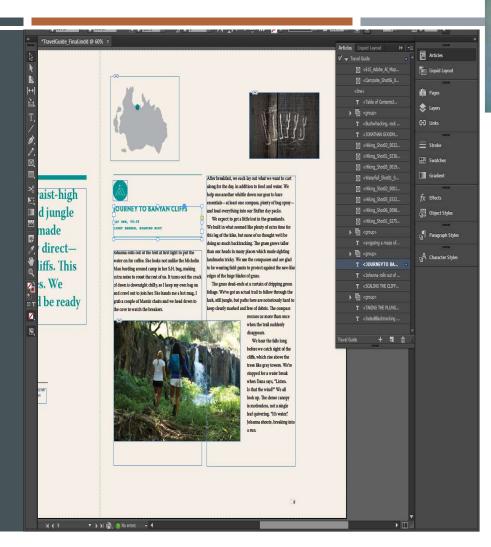




IMAGE EDITORS



Known as photoshop

Editing or modifying digital photographs

Photographs consist of thousands of pixels that form images knows as bitmaps

Popular Image editor

- Adobe Photoshop
- Corel PaintShop Pro
- GIMP (GNU Image Manipulation Program)

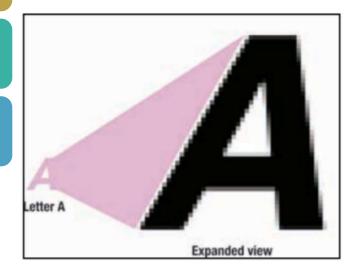


ILLUSTRATION PROGRAM

- Drawing programs
- Programs used to create & edit vector images
 - Vector illustrations
- Vector images use geometric shapes or objects
- Created by connecting lines and curves
- Defined by mathematical equations
- Popular Illustration Programs
 - Adobe Illustrator
 - CorelDraw
 - Inkscape











Audio editing software

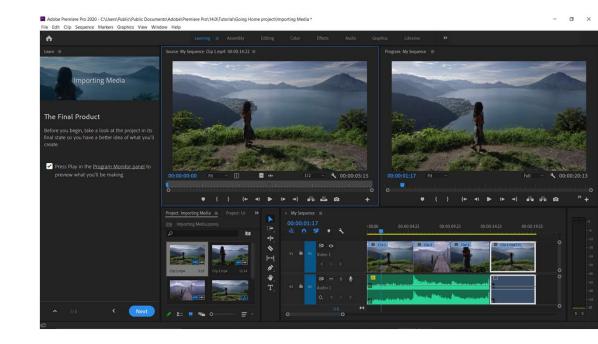
- > Enables users to create and modify audio clips.
- > Filter out imperfections
- Can create own MP3
- Well-known Programs :
 - Adobe Audition
 - Apple's Garage Band
 - Audacity

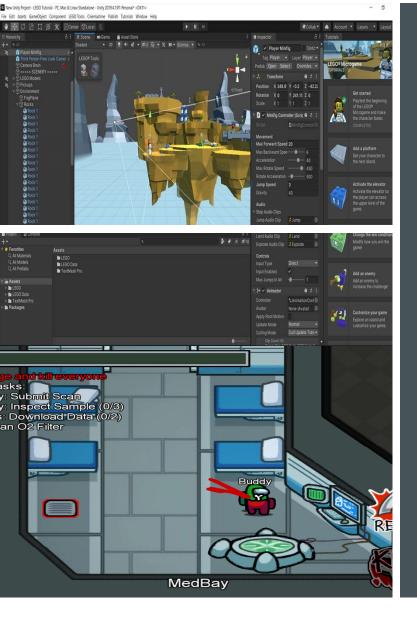






- Video editing software
 - > Edit videos to enhance quality and appearance
 - > Allow user to modify clip
 - well-known programs :
 - Adobe Premiere
 - Windows Movie Maker
 - YouTube Video Editor





VIDEO GAME DESIGN SOFTWARE



Organize thoughts

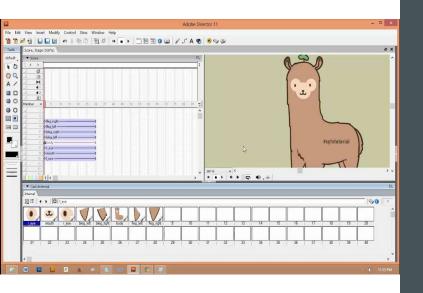
Guide user through game design process

- Character development
- Environmental design

Free / inexpensive video game design software

- Unity
- YoYo GameMaker
- Unreal engine





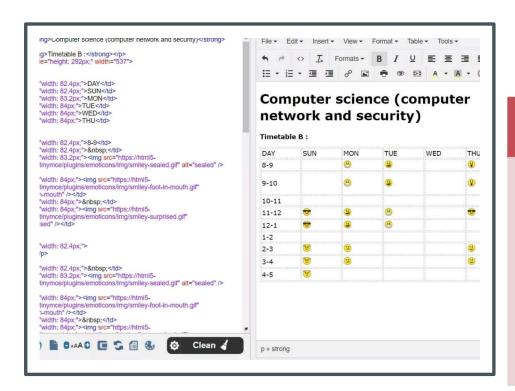
MULTIMEDIA



- A form of communication that contain different content forms
- Multimedia authoring software
 - Able presenting information in the form of a digital multimedia which can combine text, graphics, audio, video, and animation.
 - Example :
 - Adobe Director
 - Macromedia Authorware



WEB AUTHORING



Web authoring

- Typically used to create commercial sites
- Many individuals use to create their own personal sites, called blogs

Web Authoring Programs

- Web page editors or HTML editors
- WYSIWYG editor (what you see is what you get)

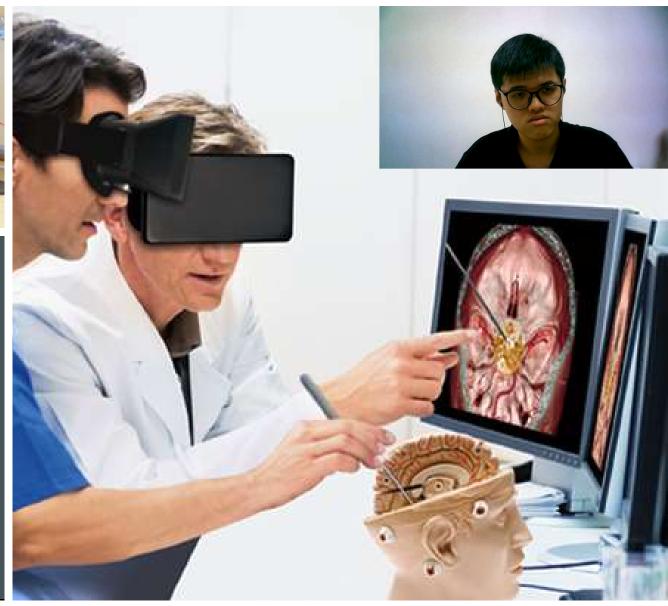
Well-known Programs:

- Adobe
 Dreamweaver
- Microsoft Expression Web



VIRTUAL REALITY

- Artificial or simulated reality
 - Generated in 3-D by a computer
 - Simulated experience that can similar to or completely different from the real world.
 - Widely used in entertainment, education and training, and robotics





KNOWLEDGE-BASED (EXPERT) SYSTEMS



a form of artificial intelligence that aims to capture the knowledge of human experts to support decision-making.



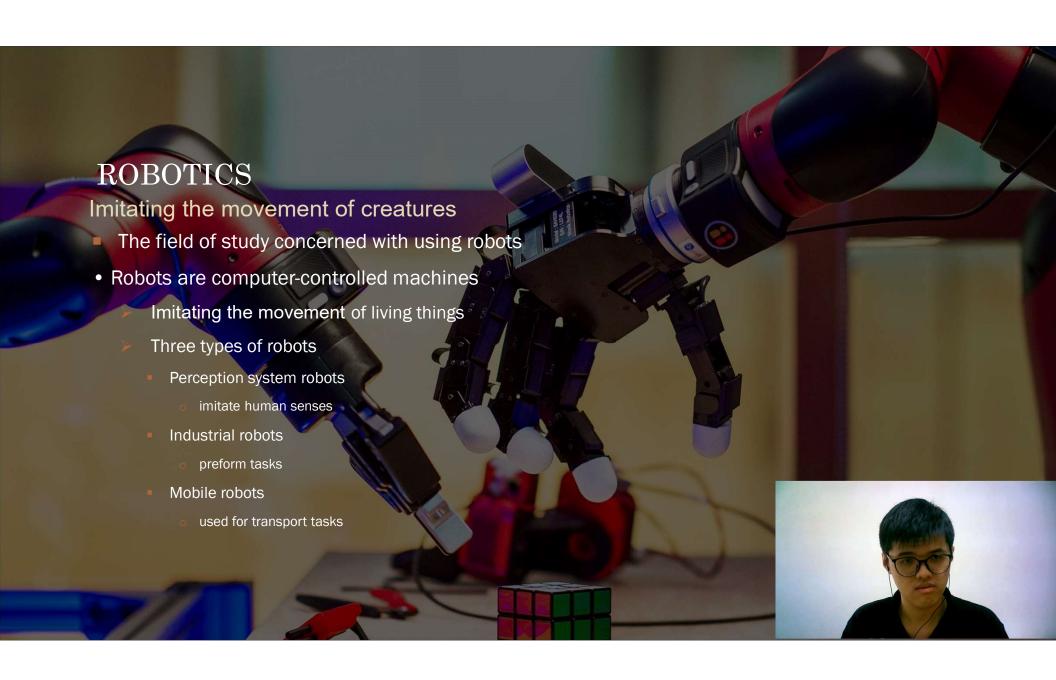
Artificial intelligence that uses a database for assistance

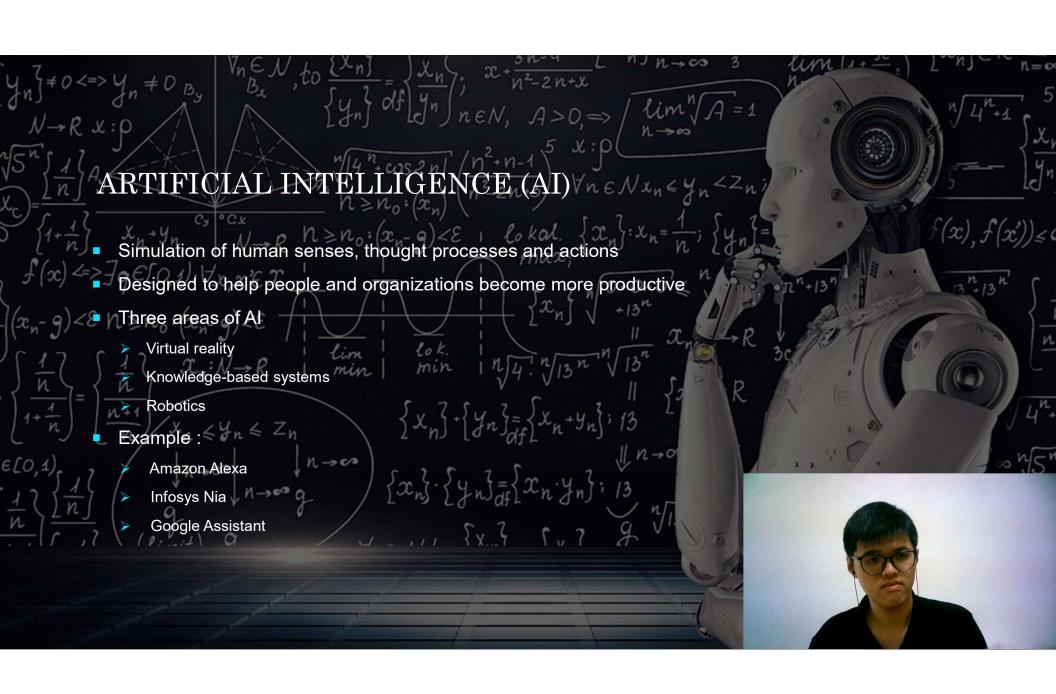


Database is known as a knowledge base



Early knowledge-based system created to help doctors diagnose diseases.









Mobile Apps

Computer program or software application designed to run on a mobile device such as smartphones and tablets

Add-on programs for a variety of mobile devices such as android or apple devices

Apps

Breadth and scope are everexpanding

2.87 Million apps for Google Play store

1.96 Million apps for Apple's app store

Music, videos, social networking, shopping, games and finance



Provide access to mobile apps for download

Apple's app store – Apple devices & website

(apple.com/app-store/)

- Google Play Android devices & website (Play.google.com/store/apps)
- Appszoom Android & Apple devices website (www.appszoom.com)







APPS STORES



Software suites is a collection of two or more software programs.

They are bundled and sold together as a group



4 types of suites

Office suites or office software suite / productivity suites

contain professional grade app programs spreadsheet, DBMS, word processor and more.

 Example: Lotus Smart Suite, Microsoft Office, Apple iWork, OpenOffice

Cloud suites or online office suites

- offered in the form of a web application
- accessed online using a web browse
- Example: Microsoft 365, Zoho
 Workplace, Polaris Office, Google docs

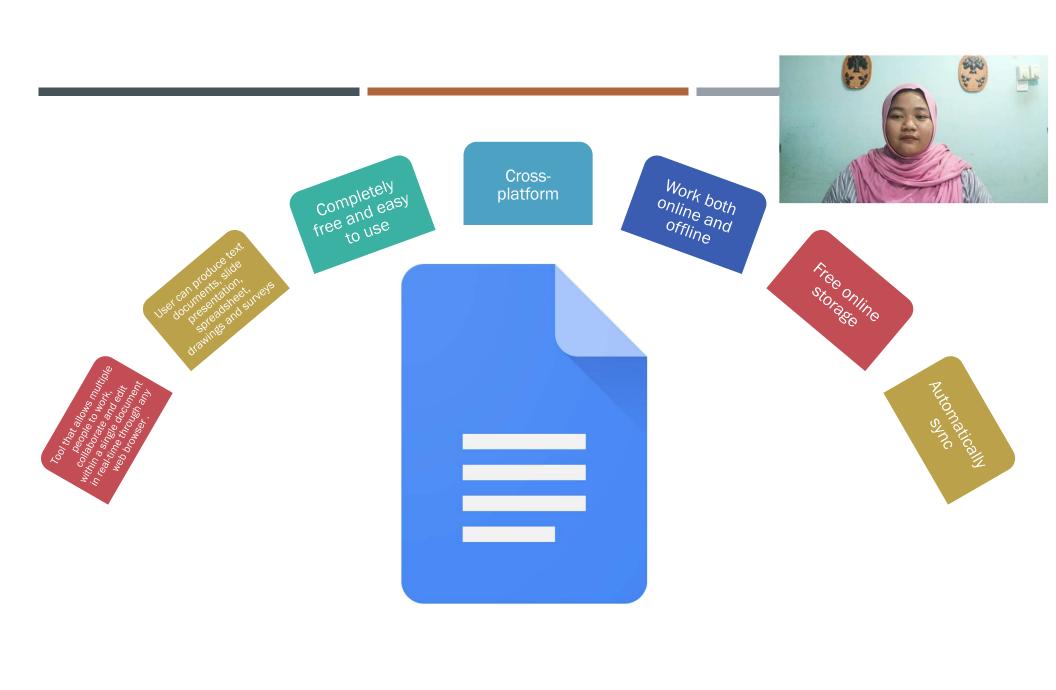
Specialized suites

- Focus on specific applications including graphic, financial planning and more.
- Example: Corel Draw Graphics Suite X6 and Moneyfree Software TOTAL Planning Suite

Utility suites

- Designed to make computing easier and safer
- Example: Norton Systems Works and Norton Internet Security suite











Analyze users' needs and create application software

Good communication and analytical skills

- Must have programming experience.
- Should be detail oriented
- Must have web application experience and analytical skills
- Earning potential of \$55,000 to \$71,000 annually
- Average salary in Malaysia is RM 79300 annually





Next Generation User-Interfaces

- Doubtful a single interface will serve everyone
- Must be comfortable to use:



Touch screen



Voice recognition



Augmented Reality (AR)



Face ID



Gestures

THANK YOU



