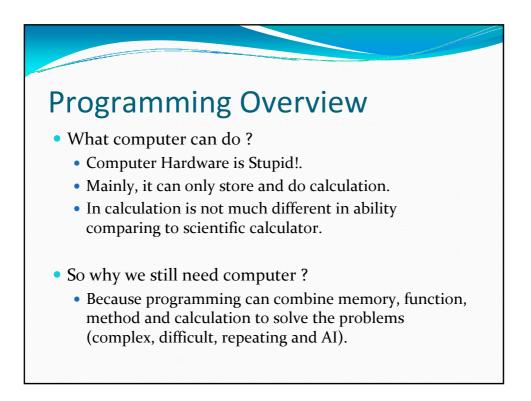


## Programming Overview

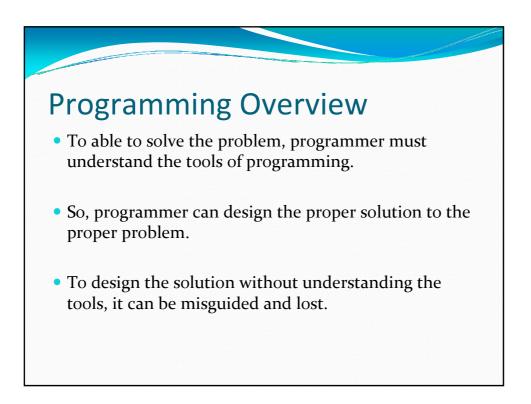
## • Why?

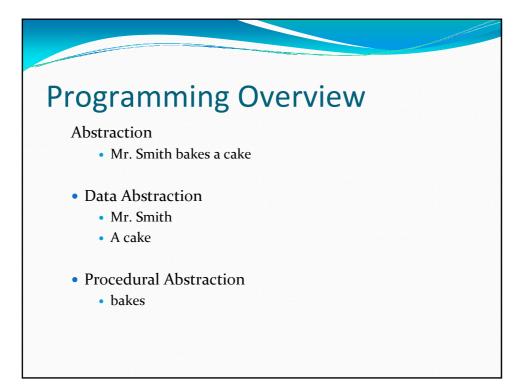
- Problem is very hard to solve.
- Problem is very complex to solve.
- Problem is repeating to solve.
- Problem needs AI to solve.
- Etc.

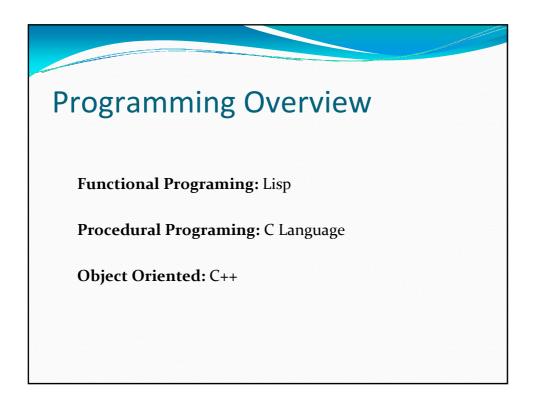


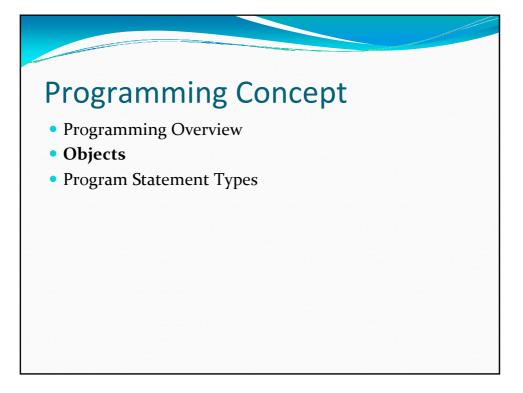


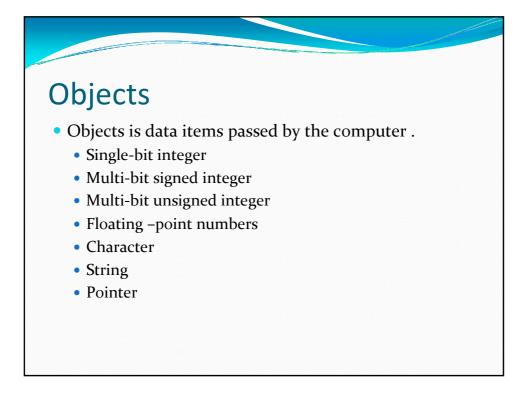
- What programmer does ?
  - Understand the problem
  - Break the problems to small pieces
  - Design the method to solve each piece of problem
  - Coding by manipulate syntax, function, procedure, ....
  - Test each solution individually
  - Test the combine solution
  - Documentation





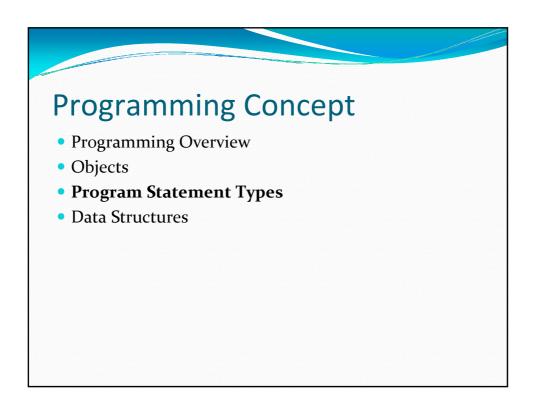






## Objects

- Objects is data items passed by the computer .
  - Single-bit integer
  - Multi-bit signed integer
  - Multi-bit unsigned integer
  - Floating -point numbers
  - Character
  - String
  - Pointer

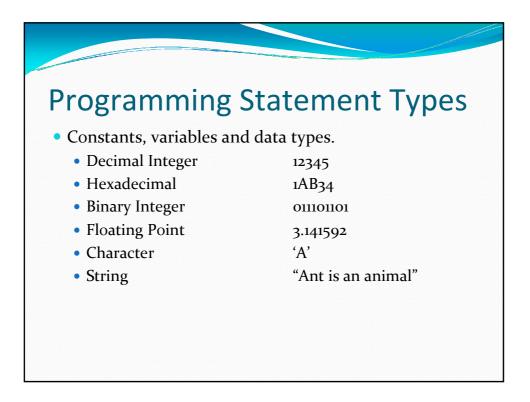


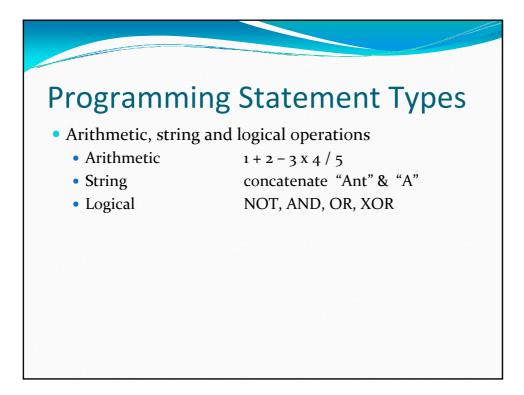


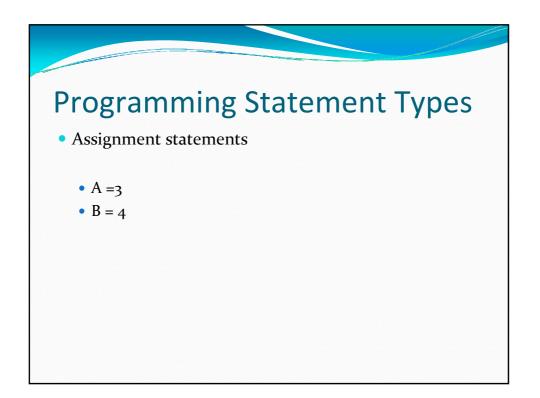
• Programming Statement is procedure or action that manipulate the objects

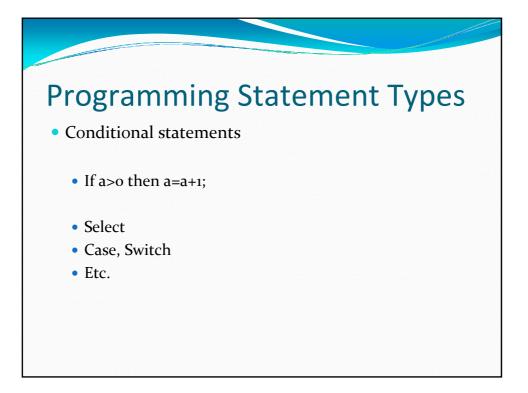
e.g. store, moving, modify or logical operations.

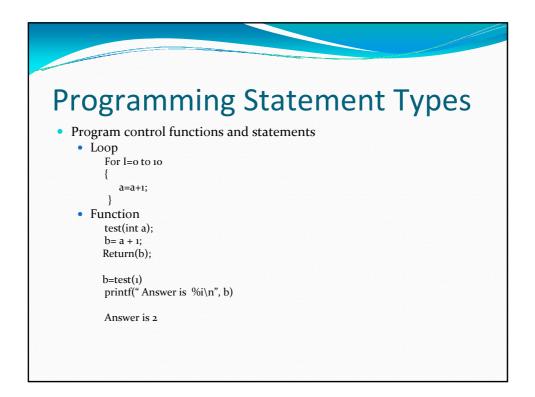
- Constants, variables and data types.
- Arithmetic, string and logical operations
- Assignment statements
- Conditional statements
- Program control functions and statements
- Input and output functions and statements.

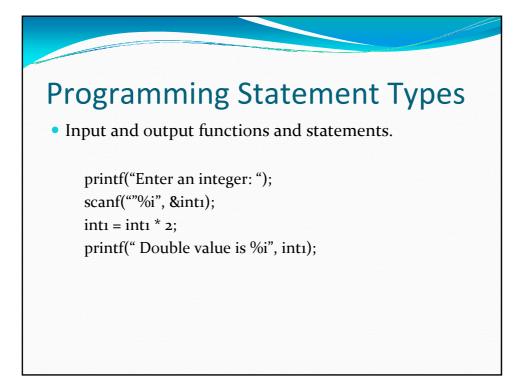


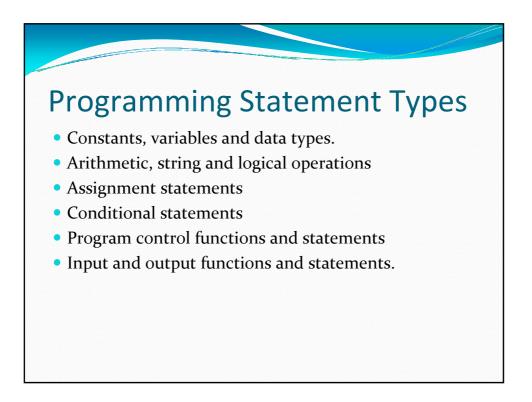


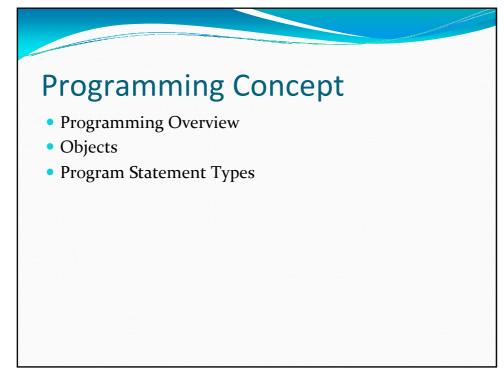


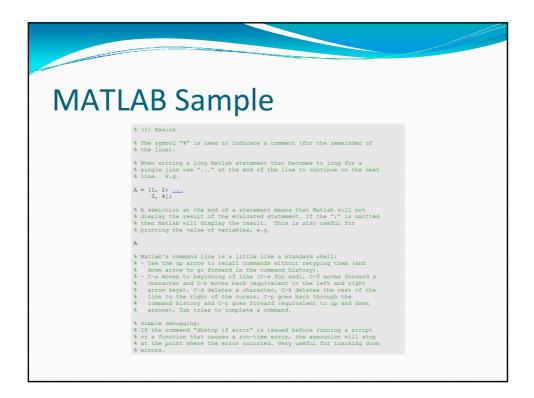


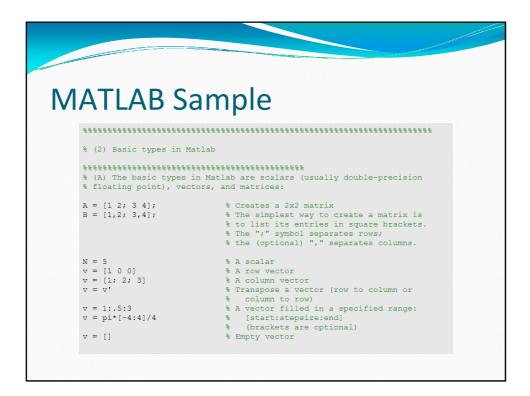












MATLAB Sample			
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