Self-Improvement

Introduction to OOP

By Rishi
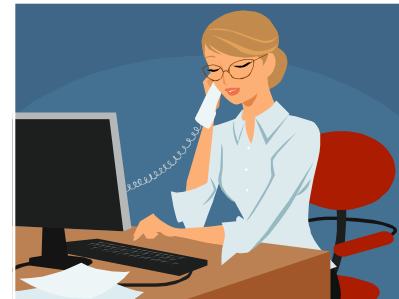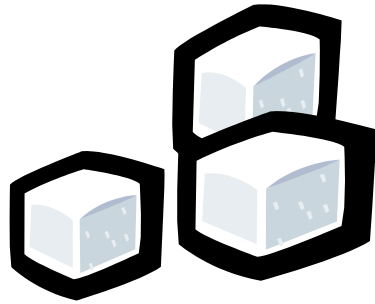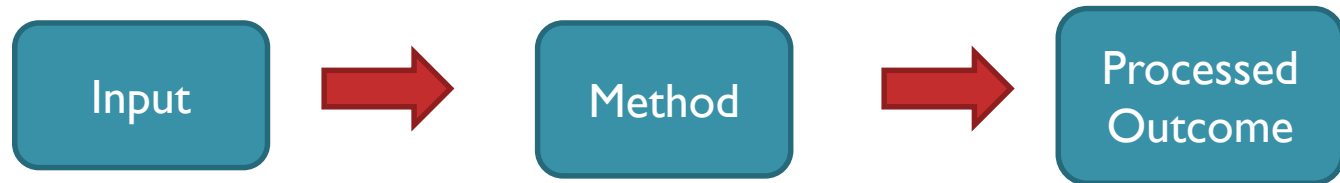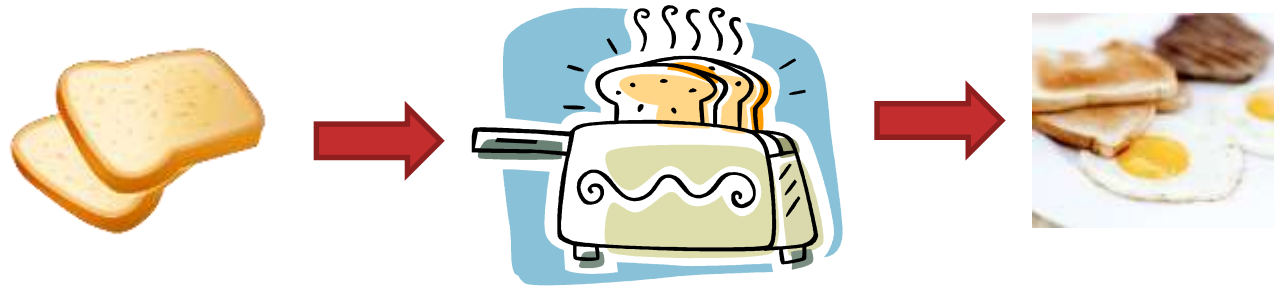
Class:

- Imagine you have to create these cubes. And you have to give it to a designer.

- Lets see if we can write a design for this Cube Object.

Front = Square
Side = Square
Top = Square
Height = 2 cm
Width = 2 cm

The class can be seen as the blueprint of an object. It describes how an object is created.

Method:

- Do you know how to use toaster?

Input		Method		Processed Outcome
	→		→	

A method is a block of code with parameters and a return value. It can be called on the object.

What is an Object?

Apply breaks
Change Gears
Move pedal
Adjust seat

Handle
Break
Pedal
seat
Gears
Wheels

Behavior
Or
Functions

Properties
Or
State

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Object:

- Objects are key to understanding *object-oriented* technology. Look around right now and you'll find many examples of real-world objects: your dog, your desk, your television set, your bicycle.

- Software objects are conceptually similar to real-world objects: they too consist of state and related behavior. An object stores its state in *fields* (variables) and exposes its behavior through *methods*

Encapsulation:

Do you know How to use Call button on your cell phone?

Do you understand how this "Call" connects to network and dials the number… basically all logic?

Does that stopped you from using it?

Encapsulation provides the security that keeps data and methods safe from inadvertent changes. It also means hiding data and methods within an Object.
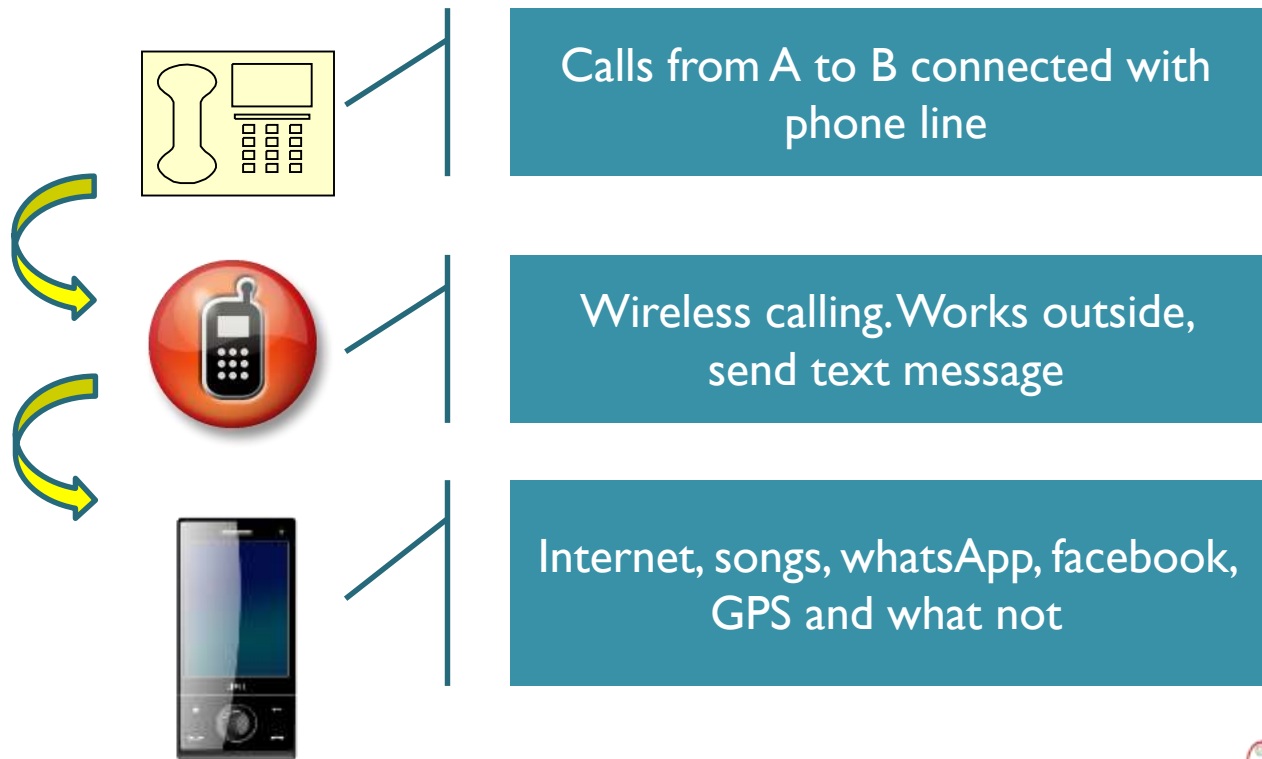
Polymorphism

- Poly – Many ; Morphs – forms
- Object-oriented programs are written so that the methods having same name works differently in different context.

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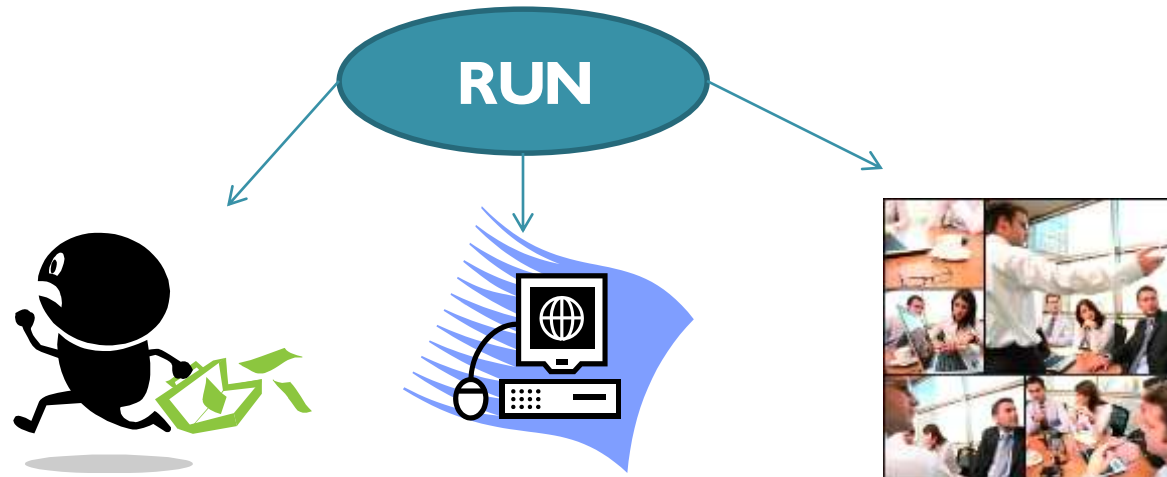
Inheritance

In OOP deriving a new class from existing class, it's called as Inheritance. New class may have new features in it.

Calls from A to B connected with phone line

Wireless calling. Works outside, send text message

Internet, songs, whatsApp, facebook, GPS and what not

Thank you.

No question is dumb question.

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