







Lab Objectives:

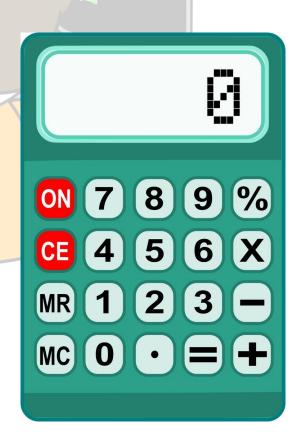
- What is Programming?
- Overview of Programming Languages.
- Variables in Programming Languages.

What is Programming?

Computer programming is a way of giving computers instructions about what they should do next. These instructions are known as code, and computer programmers write code to solve problems or perform a task.

The goal of programming is creating an executable program to solve problem using machine or computing devices.

Example: A calculator which is programmed in such a way so that it we can add, divide, multiply numbers.





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What is Programming Languages?

A programming language is a vocabulary and set of grammatical rules for giving commands and instruction to a computer or computing device to perform specific tasks.

Each programming language has a unique set of keywords (words that it understands) and a special syntax for organizing program instructions.

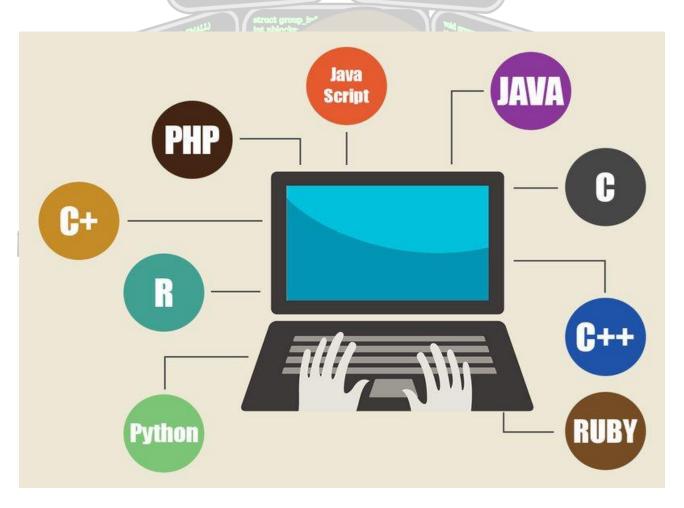
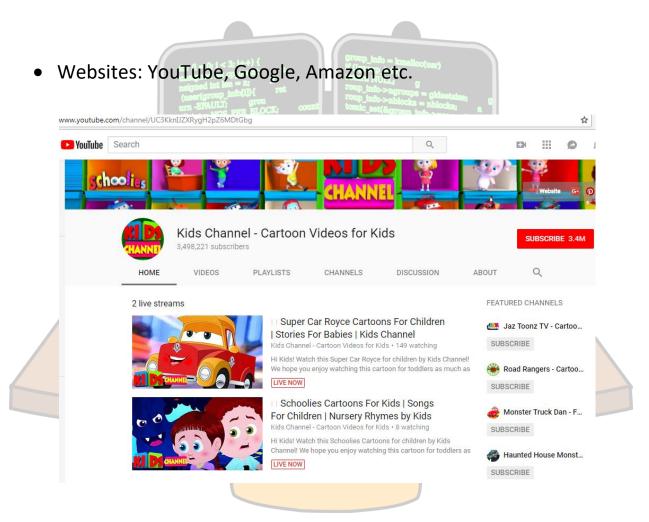


Figure 1: Some Programming Languages' Name





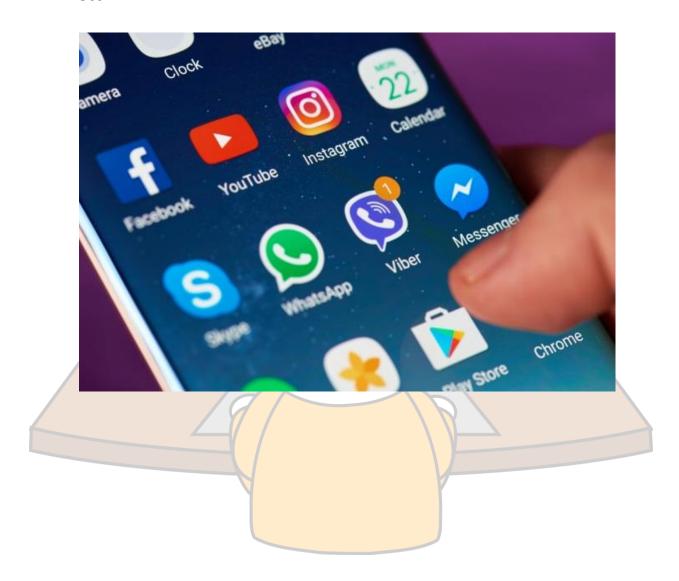
What can we do using Programming languages?







• Mobile & Desktop Applications: Messenger, WhatsApp, Playstore etc.





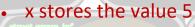


Variables

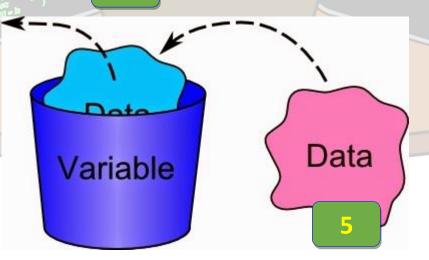
Variables are containers for storing data values.

In this example, x, y, and z, are variables. From the example above, we

can expect:



- y stores the value 6
- z stores the value 11







Exercise:

```
var price1 = 300;
var price2 = 430;
var total = price1 + price2;
So, what is the value of total?
```

Variables: Data

Type: | MRS PER BLOCK;

Variables: Data

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ONLY | MRS PER BLOCK;

group info = kmalloc(uar)
if (lgroup info)
return NULL;
roup info->ngroups = gideetxine;
roup info->nblocks;
tomic set(farrous = nblocks;
tomic set(farrous = nblocks;

Most common and basic data type in programming languages are:

var marks = 80;

Integer

var grade = 4.50;

Decimal

var name = "Zyan"

String



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