

# PYTHON

## From Simple to Complex With Examples

AYESHA NOREEN

Bachelor's in Software Engineering,

Master's in Computer Science

from COMSATS University, Islamabad

# NOTE!!!

In these notes Screenshots of practice examples and coding are added. The code files are also available in code folder that contain .ipynb files that are created on Jupyter notebook.

# Chapter2

## Python Variables

Variables are used to store data. If there is a variable `a` and `a=5` than if we store another value in `a` as `a='Ayesha'` this mean value of `a` is overwrite in this way we can change value of a variable. Variables can store integer, float, string and character data. Multiple Variables can also be declared in a single line. As,

- `number1,number2=5,6`
- `x=y=z=1`

- **Variables Rules**

- Name of variable should be well defined.
- Name of variable always start with letter or \_
- It does not start with any digit but we can use digit inside. As, number1=2 or \_number2=5
- We cannot use any special symbol inside or at start or end of variable.

- **Variables naming Conventions**

Rules mean must follow if not follow give error  
convention mean follow or not. For large names use \_

For Example,

- name\_of\_person      #this is called snake case.
- nameOfPerson      #this is called camel case
- NameOfPerson      #this is called pascal case