# **LEARN PYTHON PROGRAMMING**

- Comments increase readability or understand-ability of program.

# **Comments in Python**

- 1. Single-line comment
- 2. Multi-line comment

## 1. Single Line Comment

```
#To add numbers
a=10 #store 10 into variable a
```

Next lecture is on Thursday.

#### 2. Multi-line Comment or Block Comments

```
Triple double quotes """ or triple single quotes ""

For Example:
"""

This is python lecture.

Next lecture is on Thursday.
"""

""

This is python lecture.
```

#### **DOCSTRINGS**

- If we write strings inside """ or "' and if these strings are written as first statements in the module, function, class or a method, then these strings are called **documentation strings or doc-strings.**
- Useful to create an API (Application Programming Interface) documentation file.

# **VARIABLE AND INDENTIFIERS**

- A **variable** is a named location used to store data in the memory.
- Example: a=10; b=15
- Assignment Operator (=)
- The name given to a variable is called **identifier**.
- We need not to declare the datatype of the variable.

## **How Python see variables**

- A variable is seen as a tag (or name) that is tied to some value.
- Python considers the values as 'objects'.
- For example number=10; number=1.1
- In python, we don't actually assign values to the variables. Instead, Python gives the reference of the object (value) to the variable.
- Python is a type-inferred language.

#### Example 1: Declaring and assigning value to a variable

```
website = "python.org"
print(website)
```

#### **Example 2: Changing the value of a variable**

```
website = "python.org"
print(website)
#assigning a new value to website
website = "outlook.office.com"
print(website)
```