# Suman IT Technologies

# 1) Variables in python

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### What is variable?

- 1) Variables are containers for storing data values
- 2) Once variable created, some space allocated to store data with reference to variable name.
- 3) We can create variables in python by using equal(=) operator

Like a = 10

'a' is the variable name

10 is the value stored in variable 'a'

# Syntax to create variables in python

<variable name> = <value>

#### **Example:**

a = 10

b = 20

Here 'a' and 'b' are variable names and 10 and 20 are values stored in those variable

# **Create variable in python**

>>> # lets create a variable in python

>>> a

10

$$>>> b = 20$$

>>> b

20

30

$$>>> c = a + b$$

### Multiple assignment

Multiple assignment can be done in python at a time

```
>>> # multiple assignment
>>> a=b=c=10
>>> # 10 is assigned to all variables a, b and c
>>> a
10
>>> b
10
>>> C
10
>>>
```

### **Examples:**

1) Create variable to store number

$$>>> b = 30$$

2) Create variable to store string data

3) Create variable to store list of data

4) Create variable to store dict data

```
>>> employee = {"name": "Badra", "age": 29}
```

5) Create variable to store tuple data

6) Create variable to store set data

Note: No need to define data type while creating variable in python, python takes care about data type at run time.

### Rules to define variable names

 A variable name must starts with a letter or the underscore(\_) charectctor

```
Ex: name = "Badra" or _name = "Badra"
```

- A variable name can only contain alpha-numeric characters and underscores (A-z, 0-9, and \_ )
- Variable names are case-sensitive (age, Age and AGE are three different variables)

Note: Python is case sensitive language (means 'a' and 'A' is treat as different char)

```
#Legal variable names:
myvar = "John"
my var = "John"
my var = "John"
myVar = "John"
MYVAR = "John"
mvvar2 = "John"
#Illegal variable names:
2myvar = "John"
my-var = "John"
mv var = "John"
```