

## DATA TYPES

```
type(1) #integer type
```

```
int
```

```
type('sushmita') #string type
```

```
str
```

```
type([1,2,3,4]) #list
```

```
list
```

```
type((6,7,8,9)) #tuple
```

```
tuple
```

```
{'Name': 'Sushmita', 'Rollno': '1BY20MC054', 'Course': 'MCA'} #dictionary(key:value pair)
```

```
{'Course': 'MCA', 'Name': 'Sushmita', 'Rollno': '1BY20MC054'}
```

```
type({'Name': 'Sushmita', 'Rollno': '1BY20MC054', 'Course': 'MCA'})
```

```
dict
```

```
type(6.5)
```

```
float
```

```
a = 35
```

```
b = 10
```

```
c = a+b // addition
```

```
print(c)
```

```
45
```

```
d = a-b // subtraction
```

```
print(d)
```

```
25
```

```
e = a*b //multiplication
```

```
print(e)
```

```
350
```

```
f = a/b //devision  
print(f)
```

```
3.5
```

## ▼ print

```
print("hello")
```

```
hello
```

```
type("hello")
```

```
str
```

```
a=10  
print(a)
```

```
10
```

```
type(a)
```

```
int
```

## Manipulation of list

```
a=[10,20,30,40,50,60,70,80,90]  
a.insert(8,37) #insert 37 in the 8th index  
print(a)
```

```
[10, 20, 30, 40, 50, 60, 70, 80, 37, 90]
```

```
a.insert(12,2) # 2 in 12th index  
print(a)
```

```
[10, 20, 30, 40, 50, 60, 70, 80, 37, 90, 2]
```

```
a.insert(1000,5) # 5 in 1000 index
```

```
this1=('mango','apple','banana')
```

```
this1[2] #get the value of 2nd index
```

```
'banana'
```

```
dic={"Name":"sushmi","Age":26}
```

```
del dic["Age"] #delete the age
```

```
print(dic)
```

```
{'Name': 'sushmi'}
```

```
dic["Number"]=1234 #insert into the dictionary
```

```
print(dic)
```

```
{'Name': 'sushmi', 'Number': 1234}
```

```
dic.pop("Name") #pop the element
```

```
'sushmi'
```

```
temp=dict(Brand="Apple",model="aaa")
```

```
print(temp)
```

```
{'Brand': 'Apple', 'model': 'aaa'}
```

```
temp['model']
```

```
'aaa'
```

```
a=20
```

```
b=15
```

```
if a>b:
```

```
    print("a is greater")
```

```
else:
```

```
    print("b is greater")
```

```
a is greater
```

```
a=("hello","world")
print(a)
```

```
('hello', 'world')
```

```
string='Parade'
```

```
if string == 'Parade':
    print('hello')
    string = string*3
    print(string)
```

In the above code it is indentation error. In this code if the string is equal to Parade then it will display Parade to 3 times bcz of \*3 before that it will display hello also.

```
string='Parade'
if string == 'Parade':
    print('hello')
    string = string * 3
    print(string)
```

```
hello
ParadeParadeParade
```

```
l = ['tomato','onion','brinjal', 'banana']
```

```
for i in range(len(l)):
    if l[i]=='banana':
        l[i]='mushroom'
```

```
print(l)
```

```
['tomato', 'onion', 'brinjal', 'mushroom']
```

```
l = ['tomato','onion','brinjal', 'banana']
li = [i.replace('banana','mushroom') for i in l]
print(li)
```

```
['tomato', 'onion', 'brinjal', 'mushroom']
```

```
sum=0 #sum of first 10 natural no.
for i in range(10):
    sum=sum+i
```

```
print(sum)
```

```
45
```

