

```
In [1]: 1 print("Hello Python")
```

Hello Python

```
In [2]: 1 print("My Name is Simran")
```

My Name is Simran

## VARIABLES

```
In [3]: 1 type(1)
```

Out[3]: int

```
In [4]: 1 type(1.2)
```

Out[4]: float

```
In [5]: 1 type("Python")
```

Out[5]: str

```
In [6]: 1 type(True)
```

Out[6]: bool

## DATA TYPES

```
In [7]: 1 #LIST
2 fruit=["Guava","Banana","Apple","Cherry"]
3 print(fruit)
```

['Guava', 'Banana', 'Apple', 'Cherry']

```
In [8]: 1 print(type(fruit))    #Using 'type' we can known about data types
```

<class 'list'>

```
In [9]: 1 print(len(fruit))    #for Length or count of fruit
```

4

```
In [10]: 1 fruit[:2]    #for slicing perticular name or thing
```

```
Out[10]: ['Guava', 'Banana']
```

```
In [11]: 1 fruit[-1]
```

```
Out[11]: 'Cherry'
```

```
In [12]: 1 fruit.append("Kiwi")    # To insert or add new thing we use 'append'  
2 print(fruit)
```

```
['Guava', 'Banana', 'Apple', 'Cherry', 'Kiwi']
```

```
In [13]: 1 fruit.pop()    #'pop' removes last element  
2 print(fruit)
```

```
['Guava', 'Banana', 'Apple', 'Cherry']
```

```
In [14]: 1 fruit.remove("Banana")    #To remove perticular element  
2 print(fruit)
```

```
['Guava', 'Apple', 'Cherry']
```

```
In [15]: 1 list1=[1,3,5]  
2 list2=[2,4,6]  
3 add=list1+list2  
4 print(add)    #Concatnate or Joint
```

```
[1, 3, 5, 2, 4, 6]
```

```
In [16]: 1 # TUPLE  
2  
3 car=("Jaguar","Hyundai","Rolls Royce","Forkswagen","BMW")  
4 print(car)
```

```
('Jaguar', 'Hyundai', 'Rolls Royce', 'Forkswagen', 'BMW')
```

```
In [17]: 1 print(type(car))
```

```
<class 'tuple'>
```

```
In [18]: 1 len(car)
```

```
Out[18]: 5
```

```
In [19]: 1 car[1]    #It gives Perticular element
```

```
Out[19]: 'Hyundai'
```

```
In [20]: 1 car[-2:]    #It gives last two elements
```

```
Out[20]: ('Forkswagen', 'BMW')
```

```
In [21]: 1 car[2:4]
```

```
Out[21]: ('Rolls Royce', 'Forkswagen')
```

```
In [22]: 1 #SET
2
3 Set={1,2,3,4}
4 print(Set)
```

```
{1, 2, 3, 4}
```

```
In [23]: 1 Set=set(('A','B','C','D'))    #Tuple convert into SET
2 print(Set)
```

```
{'A', 'D', 'B', 'C'}
```

```
In [24]: 1 Set.add('E')                #Add element using 'add'
2 print(Set)
```

```
{'E', 'A', 'B', 'D', 'C'}
```

```
In [25]: 1 Set.update('F','G')        #Add multiple elements
2 print(Set)
```

```
{'F', 'G', 'E', 'A', 'B', 'D', 'C'}
```

```
In [26]: 1 Set={1,1,"s",2,"s"}    #Duplicate not allowed
2 print(Set)
```

```
{'s', 1, 2}
```

```
In [27]: 1 s1={10,20}
2 s2={30,40}
3 s1.union(s2)    #Union of set
```

```
Out[27]: {10, 20, 30, 40}
```

```
In [28]: 1 s1={10,20,30}
2 s2={30,40,10}
3 s1.intersection(s2)    #Intersection of set
```

```
Out[28]: {10, 30}
```

```
In [29]: 1 #DICTIONARY
          2
          3 fruit={'Apple':100,'Banana':40,'Orange':70,'Kiwi':120}
          4 print(fruit)
```

```
{'Apple': 100, 'Banana': 40, 'Orange': 70, 'Kiwi': 120}
```

```
In [30]: 1 type(fruit)
```

```
Out[30]: dict
```

```
In [31]: 1 fruit.keys()
```

```
Out[31]: dict_keys(['Apple', 'Banana', 'Orange', 'Kiwi'])
```

```
In [32]: 1 fruit.values()
```

```
Out[32]: dict_values([100, 40, 70, 120])
```

```
In [33]: 1 fruit["Mango"]=200    #Adding new element
          2 print(fruit)
```

```
{'Apple': 100, 'Banana': 40, 'Orange': 70, 'Kiwi': 120, 'Mango': 200}
```

```
In [34]: 1 Dict=dict(name="Simran",surname="Pirjade",age=23)  #TUPLE convert into Dict
          2 print(Dict)
```

```
{'name': 'Simran', 'surname': 'Pirjade', 'age': 23}
```

```
In [ ]: 1
```