

Tutorial - 1 of Basics of Python

```
In [3]: # Print Function
```

```
In [2]: print("Hello World")
print("Welcome to my World")
```

```
Hello World
Welcome to my World
```

```
In [3]: # Single Line and Multiline Comments
# this is a Single line comment.
# for Multiple Line Comment is use 6 Quots.Example Given Below
'''this is multiple line comment'''

print("Hello")
```

```
Hello
```

```
In [4]: # Variable declaration

a = 10

type(a) # Show Data type we use type()
```

```
Out[4]: int
```

```
In [5]: print(a)

10
```

```
In [6]: tenth = 10
b = 40
c = "Raz"
```

```
In [7]: type(c)
```

```
Out[7]: str
```

```
In [9]: # We can not start a varibale name with Number it shows Error (invalid syntax). Exapmle givent below
#Ex : - 12name
```

```
In [10]: 12name = "Raaz"
```

```
Cell In[10], line 1
    12name = "Raaz"
      ^
SyntaxError: invalid syntax
```

```
In [12]: first_name = "Raaz"
print(first_name)
```

```
Raaz
```

```
In [13]: ## intergers
a = 10
type(a)
```

```
Out[13]: int
```

```
In [14]: a+10
```

```
Out[14]: 20
```

```
In [15]: a*20
```

```
Out[15]: 200
```

```
In [16]: a/10
```

```
Out[16]: 1.0
```

```
In [17]: a//10
```

```
Out[17]: 1
```

```
In [18]: a%10
```

```
Out[18]: 0
```

```
In [19]: print(type(a))  
<class 'int'>
```

```
In [20]: a = 10  
b = 20  
print(a+b)  
30
```

```
In [23]: #floating  
a = 190.5
```

```
In [24]: print(a)  
190.5
```

```
In [22]: type(a)  
Out[22]: float
```

```
In [25]: # convert float to int is called (Type casting)
```

```
In [26]: int(a)  
Out[26]: 190
```

```
In [ ]: # Convert int to float is called (Type casting)
```

```
In [27]: float(b)  
Out[27]: 20.0
```

```
In [28]: #Boolean
```

```
In [29]: a1 = True  
b1 = False
```

```
In [30]: type(a1)  
Out[30]: bool
```

```
In [32]: a1 and b1  
Out[32]: False
```

```
In [33]: a1 or b1  
Out[33]: True
```

```
In [34]: a1 | b1 #(Or = |)  
Out[34]: True
```

```
In [36]: #Strings  
name1 = "Raaz"  
print(name1)  
print(type(name1))  
Raaz  
<class 'str'>
```

```
In [39]: name1 + 1 # daynamic typing and strong typing
```

```
-----  
TypeError                                Traceback (most recent call last)  
Cell In[39], line 1  
----> 1 name1 + 1 # daynamic typing and strong typing  
TypeError: can only concatenate str (not "int") to str
```

```
In [40]: name1 + str(1) # daynamic typing and strong typing  
Out[40]: 'Raaz1'
```

```
In [42]: #complex Number  
j = 1.0-2.3j  
j
```

```
Out[42]: (1-2.3j)
```

```
In [43]: print(j.real,j.imag)
```

```
1.0 -2.3
```

```
In [44]: #dynamic Typing
```

```
In [45]: a = 10  
a = "Raaz"
```

```
In [48]: #strong typing  
a = 'Raaz'
```

```
In [49]: a + '1'
```

```
Out[49]: 'Raaz1'
```

```
In [51]: a + str(1)
```

```
Out[51]: 'Raaz1'
```

```
In [52]: #string formatting
```

```
In [53]: a = 100  
  
print("The value is - ",a)  
  
The value is - 100
```

```
In [57]: first_name = "Raaz"  
last_name = "Developer"  
print("The first name is {} and last name is {}".format(first_name,last_name))  
  
The first name is Raaz and last name is Developer
```

```
In [58]: first_name = "Raaz"  
last_name = "Developer"  
print("The first name is {0} and last name is {1}".format(first_name,last_name))  
  
The first name is Raaz and last name is Developer
```

```
In [59]: # when i change formatting last name to first name  
first_name = "Raaz"  
last_name = "Developer"  
print("The first name is {0} and last name is {1}".format(last_name,first_name))  
  
The first name is Developer and last name is Raaz
```

```
In [60]: #When i change the place holder value  
first_name = "Raaz"  
last_name = "Developer"  
print("The first name is {1} and last name is {0}".format(last_name,first_name))  
  
The first name is Raaz and last name is Developer
```

```
In [61]: #When i assign the placeholder value  
first_name = "Raaz"  
last_name = "Developer"  
print("The first name is {a} and last name is {b}".format(b = last_name,a = first_name))  
  
The first name is Raaz and last name is Developer
```

```
In [62]: ## input type  
input("Enter the name")  
  
Enter the nameRaaz
```

```
Out[62]: 'Raaz'
```

```
In [67]: # input type  
a = input("Enter the number A = ")  
b = input("Enter the number B = ")  
print(int(a)+int(b))  
  
Enter the number A = 50  
Enter the number B = 50  
100
```

```
In [ ]:
```