

In [ ]:

```
print("Hello World")
```

Hello World

In [ ]:

```
"India is my country"
```

Out[ ]:

'India is my country'

In [ ]:

```
v="India is my country "  
v
```

Out[ ]:

'India is my country'

In [ ]:

```
type(5)
```

Out[ ]:

int

In [ ]:

```
type(8.89)
```

Out[ ]:

float

In [ ]:

```
5 + 10
```

Out[ ]:

15

In [ ]:

```
v +str(5)
```

Out[ ]:

'India is my country5'

In [ ]:

```
type(True)
```

Out[ ]:

bool

In [ ]:

```
4 > 3
```

Out[ ]:

True

```
In [ ]:
```

```
v= " tiger"
```

```
In [ ]:
```

```
v
```

```
Out[ ]:
```

```
' tiger'
```

[link text](#)

```
In [ ]:
```

```
v[::1]
```

```
Out[ ]:
```

```
' tiger'
```

```
In [ ]:
```

```
print("Hello world")
```

```
Hello world
```

```
In [ ]:
```

```
print("India is great")
```

```
India is great
```

```
In [ ]:
```

```
t1 = "India is my country"
```

```
In [ ]:
```

```
t1
```

```
Out[ ]:
```

```
'India is my country'
```

```
In [ ]:
```

```
v1 = "My name is gaurav"
```

```
In [ ]:
```

```
v1
```

```
Out[ ]:
```

```
'My name is gaurav'
```

```
In [ ]:
```

```
v2 = "India is great"
```

```
In [ ]:
```

```
v2
```

```
Out[ ]:
```

```
'India is great'
```

```
In [ ]:
```

```
type(5)
```

```
Out[ ]:
```

```
int
```

```
In [ ]:
```

```
type(7.89)
```

```
Out[ ]:
```

```
float
```

```
In [ ]:
```

```
t = 6
```

```
In [ ]:
```

```
t
```

```
Out[ ]:
```

```
6
```

```
In [ ]:
```

## ***#SLICING***

```
In [ ]:
```

```
a = "Chennai"
```

```
In [ ]:
```

```
a
```

```
Out[ ]:
```

```
'Chennai'
```

```
In [ ]:
```

```
a = "Chennai"
```

```
In [ ]:
```

```
a
```

```
Out[ ]:
```

```
'Chennai'
```

```
In [ ]:
```

```
a[0]
```

```
Out[ ]:
```

```
'C'
```

```
In [ ]:
```

```
a[6]
```

```
Out[ ]:
```

```
'i'
```

```
In [ ]:
```

```
a[0:1000]
```

```
Out[ ]:
```

```
'Chennai'
```

```
In [ ]:
```

```
a[::4]
```

```
Out[ ]:
```

```
'Cn'
```

```
In [ ]:
```

```
a[::5]
```

```
Out[ ]:
```

```
'Ca'
```

```
In [ ]:
```

```
a[::0]
```

```
-----  
ValueError                                Traceback (most recent call last)  
<ipython-input-27-7ec8febe9a5b> in <cell line: 1>()  
----> 1 a[::0]
```

```
ValueError: slice step cannot be zero
```

```
In [ ]:
```

```
a[::3]
```

```
Out[ ]:
```

```
'Cni'
```

```
In [ ]:
```

```
a[-2]
```

```
Out[ ]:
```

```
'a'
```

```
In [ ]:
```

```
a[-5]
```

```
Out[ ]:
```

```
'e'
```

```
In [ ]:
```

```
a[-1:-2:1]
```

```
Out[ ]:
```

```
''
```

```
In [ ]:
```

```
a[-1:-2:-2]
```

```
Out[ ]:
```

```
'i'
```

```
In [ ]:
```

```
a[1:3:6]
```

```
Out[ ]:
```

```
'h'
```

```
In [ ]:
```

```
b = "Patna"
```

```
In [ ]:
```

```
b
```

```
Out[ ]:
```

```
'Patna'
```

```
In [ ]:
```

```
b[-1:-5:-1]
```

```
Out[ ]:
```

```
'anta'
```

```
In [ ]:
```

```
b[-1:-5:-2]
```

```
Out[ ]:
```

```
'at'
```

## Python Keywords

```
In [ ]:
```

```
help("keywords")
```

Here is a list of the Python keywords. Enter any keyword to get more help.

False	class	from	or
None	continue	global	pass
True	def	if	raise
and	del	import	return
as	elif	in	try
assert	else	is	while
async	except	lambda	with
await	finally	nonlocal	yield
break	for	not	

## PRINT STATEMENTS

```
In [ ]:
```

```
print("Hello World","My Name is Gaurav")
```

```
Hello World My Name is Gaurav
```

```
In [ ]:
```

```
print("Hello World","How are you",sep="-")
```

```
Hello World-How are you
```

```
In [ ]:
```

```
print("Hello World",end="*")  
print("All are good")
```

Hello World\*All are good

In [ ]:

```
print ('Will', 'this code', 'work?')
```

Will this code work?

In [ ]:

```
print ('*', '*', '*', '*', end='-')
```

\* \* \* \* \_

In [ ]:

```
print('Hello World')
```

Hello World

In [ ]:

```
print("Will","this code","work?")
```

Will this code work?

In [ ]:

```
print('Hello')
print('Currently you are learning print function')
print('How is it going')
```

Hello  
Currently you are learning print function  
How is it going

In [ ]:

```
print('Hello', end=',')
print('Currently you are learning print function', end='\n\n')
print('How is it going')
```

Hello,Currently you are learning print function

How is it going

In [ ]:

```
print("Hello World")
var_1=2
print(var_1)
```

Hello World  
2

In [ ]:

In [ ]:

In [ ]:

```
dollar_to_rs=79.87
dollar_amount=130
rs=dollar_to_rs*dollar_amount
```

In [ ]:

```
print(rs)
```

```
10383.1
```

```
In [ ]:
```

```
dollar_to_rs=81.25  
dollar_amount= 160  
rs = dollar_to_rs*dollar_amount
```

```
In [ ]:
```

```
print(dollar_amount, "$ per rupees as per coversion rate (",dollar_to_rs," ) is",rs)
```

```
160 $ per rupees as per coversion rate ( 81.25 ) is 13000.0
```

```
In [ ]:
```

```
_variable2=67
```

```
In [ ]:
```

```
x=4  
X="sally"
```

```
In [ ]:
```

```
x
```

```
Out[ ]:
```

```
4
```

```
In [ ]:
```

```
d,f,f= 5,3.2,"Invaders"  
print(a,b,c)
```

```
5 Patna Invaders
```

```
In [ ]:
```

```
a=5  
c=3.2  
b=0
```

```
In [ ]:
```

```
a,c,c= 5,3.2,"invaders"  
print(a,c,c,sep="-")
```

```
5-invaders-invaders
```

```
In [ ]:
```

```
help("keywords")
```

Here is a list of the Python keywords. Enter any keyword to get more help.

False	class	from	or
None	continue	global	pass
True	def	if	raise
and	del	import	return
as	elif	in	try
assert	else	is	while
async	except	lambda	with
await	finally	nonlocal	yield
break	for	not	

```
In [ ]:
```

```
_init=4
```

```
In [ ]:
```

```
raining = "Yes"
if raining == "Yes" :
    print("Take Umbrella")
else :
    print("Take Sunglasses")
```

Take Umbrella

```
In [ ]:
```

```
print("First")
print("Second")
i = 6
if (i==5) :
    print("Third")
    print("fourth")
else :
    print("Five")
print("Six")
```

First  
Second  
Five  
Six

```
In [ ]:
```

```
( )
if X == "Ten" :
    print(X)
```

Ten

```
In [ ]:
```

```
print("Hello World",",",", "How are you",end="\n\n")
print("All are good?")
```

Hello World , How are you

All are good?

```
In [ ]:
```

```
dollar_to_rs=80.45
dollar_amount=200
rs_amt=dollar_to_rs*dollar_amount
```

```
In [ ]:
```

```
rs_amt
```

```
Out[ ]:
```

16090.0

```
In [ ]:
```

```
print(dollar_amount,"$ as per conversion of (", dollar_to_rs, ") is", rs_amt)
```

200 \$ as per conversion of ( 80.45 ) is 16090.0

## BOOLEAN

```
In [ ]:
```

```
bool(0)
```



```
Out[ ]:
```

```
False
```

```
In [ ]:
```

```
a = False
b = False
c = False
print ("Output 1: ", a or b or c)
```

```
Output 1:  False
```

```
In [ ]:
```

```
b = True

print ("Output 3: ", a and b and c)
```

```
Output 3:  False
```

```
In [ ]:
```

```
a = True
c = True
print ("Output 4: ", a and b and c)
print ("Output 5: ", (a and b) or c)
```

```
Output 4:  True
```

```
Output 5:  True
```

```
In [ ]:
```

```
a = False
print ("Output 6: ", a and b (or c)

File "<ipython-input-49-6338fe86522e>", line 2
    print ("Output 6: ", a and b (or c)
                                   ^
```

```
SyntaxError: invalid syntax
```

## NUMBERS

```
In [ ]:
```

```
num1 = "Tom"
type(num1)

num5 = 9
type(num5)
```

```
Out[ ]:
```

```
int
```

```
In [ ]:
```

```
#Addition
a = 8
b = 5
c = a+b
c
print ("Addition-", c)
```

```
Addition- 13
```

```
In [ ]:
```

```
#Calculations:----
```

```

a = 8
b = 5
c = a+b
c
print("Addition-",c)

a = 8
b = 5
c = a-b
c
print("Subtraction-",c)

a = 40
b = 5
c = a/b
c
print("Division-",c)

a = 40
b = 5
c = a//b
c
print("Floor Division-",c)

a = 40
b = 12
c = a*b
c
print("Multiplication -",c)

c = a % b
print("Modulus:",c)

c = a ** b
print("Exponent-",c) ##eg 2 raise to power 3 gives 8 given below

#eg:--
n = 2
m = 3
p = n ** 3
print("Exponent-",p)

```

```

Addition- 13
Subtraction- 3
Division- 8.0
Floor Division- 8
Multiplication - 480
Modulus: 4
Exponent- 1677721600000000000000
Exponent- 8

```

In [ ]:

```

num1 = 0.8
num2 = 0.4567

print(type(num1))
print(type(num2))

num = 16/8

print(num)
print(type(num))

num = 16//8

print(num)
print(type(num))

```

```
<class 'float'>
```

```
<class 'float'>
2.0
<class 'float'>
2
<class 'int'>
```

In [ ]:

```
##Implicit and Explicit conversion

num1 = 5                                ###Whenever we are adding any float value the result we get is fl
oat
num2 = 3.4
num3 = 5 + 3.4

num4 = 5
num5 = 3.4
num7 = 5 * 3.4

print(type(num1))
print(type(num2))
print("addition", num3)
print("Multiplication", num7)    ##implicit conversion

##Condition if we want to convert float value to int or vice versa we use int/float funct
ion

num4 = 5                                #Explicit conversion
num5 = 3.4
print(type(num1))
print(type(num2))

int(num5)    #Similarly for float
```

```
<class 'int'>
<class 'float'>
addition 8.4
Multiplication 17.0
<class 'int'>
<class 'float'>
```

Out[ ]:

3

In [ ]:

```
minutes = 60

type(minutes)
```

Out[ ]:

int

In [ ]:

```
bool(2.5)
```

Out[ ]:

True

In [ ]:

```
a = 13
b = 6.5

print ("Output 1: ", a/b * 1.0)
print("Output 2: ", float (a/b))
print("Output 3: ", (int (a)/b))
```

```
print ("Output 1: ", float (a/b))
print ("Output 2: ", a/float (b))
print ("Output 3: ", a/int (b))
```

```
Output 1:  2.0
Output 2:  2.0
Output 3:  2.0
Output 1:  2.0
Output 2:  2.0
Output 3:  2.1666666666666665
```

In [ ]:

```
###STRING##

company = ('Apple Inc.Newyork USA')

print ("Apple Inc.\'Newyork\' USA")

##Accessed String

company2 = ("Coding Invaders")
print (company2[-1])
print (company2[12])
print (company2[5])
```

```
Apple Inc.'Newyork' USA
s
e
g
```

In [ ]:

In [ ]: