

```
In [1]: a=10
        b=20
        a
        b
```

Out[1]: 20

```
In [2]: a=10
        b=20
        print(a)
        print(b)
```

10
20

```
In [3]: print(10)
        print(20)
```

10
20

```
In [4]: print(10),print(20)
```

10
20

Out[4]: (None, None)

```
In [5]: 10,20
```

Out[5]: (10, 20)

```
In [6]: print(a,b)
```

10 20

```
In [7]: print(30,'Nareshit','Hyd')
        # 3values
```

30 Nareshit Hyd

```
In [17]: num1=1000
        num2=200
        add=num1+num2
        # the addition of 100 and 200 is 300
        print("the addition of 100 and 200 is 300")
        print("the addition of num1 and num2 is 300")
        print("the addition of",num1,"and",num2,"is",add)
```

the addition of 100 and 200 is 300
the addition of num1 and num2 is 300
the addition of 1000 and 200 is 1200

```
In [22]: name="python"
        age=10
        city="hyd"
        # my name is python im 10 years old and came from hyd
        print("my name is python im 10 years old and came from hyd")
        print("my name is name im age years old and came from city")
        print("my name is",name,"im",age,"years old and came from",city)
```

my name is python im 10 years old and came from hyd
my name is name im age years old and came from city
my name is python im 10 years old and came from hyd

format

```
In [24]: name="python"
age=10
city="hyd"
print("my name is {} im {} years old and came from {}".format(name,age,city))
```

my name is python im 10 years old and came from hyd

```
In [25]: name="python"
age=10
city="hyd"
print("my name is {} im {} years old and came from {}".format(city,age,name))
```

my name is hyd im 10 years old and came from python

```
In [27]: num1=1000
num2=200
add=num1+num2
# the addition of 100 and 200 is 300
print("the addition of 100 and 200 is 300")
print("the addition of {} and {} is {}".format(num1,num2,add))
```

the addition of 100 and 200 is 300
the addition of 1000 and 200 is 1200

```
In [ ]: # wap take two numbers perform the
# subtraction
# multiplication
# division
# print the statements as follows

# the subtraction of 100 and 200 is -100
# the multiplication of 100 and 200 is 20000
# the division of 100 and 200 is 0.5
```

```
In [ ]: # wap take three number perform the average
# a,b,c
# avg= (a+b+c)/3
# print the statement
# the avge of a,b,c is : avg
```

mistake-1

```
In [29]: num1=100
num2=200
print(sub=num1-num2)
# print is used for to see the output
```

TypeError

Traceback (most recent call last)

Cell In[29], line 3

```
1 num1=100
2 num2=200
----> 3 print(sub=num1-num2)
```

TypeError: 'sub' is an invalid keyword argument for print()

mistake-2

```
In [30]: num1=100
num2=200
sub=num1-num2
print("the subtraction of num1 and num2 is sub.format")
```

-100

```
In [33]: num1=100
num2=200
sub=num1-num2
print("the subtraction of num1 and num2 is sub")
print("the subtraction of {} and {} is {}".format(num1,num2,sub))
```

the subtraction of num1 and num2 is sub

the subtraction of 100 and 200 is -100

```
In [34]: num1=100
num2=200
mul=num1*num2
print("the multiplication of num1 and num2 is mul")
print("the multiplication of {} and {} is {}".format(num1,num2,mul))
```

the multiplication of num1 and num2 is mul

the multiplication of 100 and 200 is 20000

```
In [35]: num1=100
num2=200
div=num1/num2
print("the division of num1 and num2 is div")
print("the division of {} and {} is {}".format(num1,num2,div))
```

the division of num1 and num2 is div

the division of 100 and 200 is 0.5

```
In [37]: a=10
b=20
c=30
avg=(a+b+c)/3
print("the average of a,b,c is : avg")
print("the average of {},{},{} is : {}".format(a,b,c,avg))
```

the average of a,b,c is : avg

the average of 10,20,30 is : 20.0

```
In [41]: print("=====ADDITION=====")
num1=1000
num2=200
add=num1+num2
# the addition of 100 and 200 is 300
print("the addition of 100 and 200 is 300")
```

```

print("the addition of {} and {} is {}".format(num1,num2,add))

print("=====SUBTRACTION=====")

num1=100
num2=200
sub=num1-num2
print("the subtraction of num1 and num2 is sub")
print("the subtraction of {} and {} is {}".format(num1,num2,sub))

print("=====MULTIPLICATION=====")

num1=100
num2=200
div=num1/num2
print("the division of num1 and num2 is div")
print("the division of {} and {} is {}".format(num1,num2,div))

print("=====DIVISION=====")

a=10
b=20
c=30
avg=(a+b+c)/3
print("the average of a,b,c is : avg")
print("the average of {},{},{} is : {}".format(a,b,c,avg))

```

```

=====ADDITION=====
the addition of 100 and 200 is 300
the addition of 1000 and 200 is 1200
=====SUBTRACTION=====
the subtraction of num1 and num2 is sub
the subtraction of 100 and 200 is -100
=====MULTIPLICATION=====
the division of num1 and num2 is div
the division of 100 and 200 is 0.5
=====DIVISION=====
the average of a,b,c is : avg
the average of 10,20,30 is : 20.0

```

f string: formatted string method

```

In [44]: num1=1000
num2=200
add=num1+num2

print("the addition of 100 and 200 is 300")
print("the addition of {} and {} is {}".format(num1,num2,add))
print(f"the addition of {num1} and {num2} is {add}")

```

```

the addition of 100 and 200 is 300
the addition of 1000 and 200 is 1200
the addition of 1000 and 200 is 1200

```

```

In [48]: print("the addition of 100 and 200 is 300")

```

```

the addition of 100 and 200 is 300

```

```
In [46]: print("the addition of {} and {} is {}".format(num1,num2,add))
```

```
-----
TypeError                                Traceback (most recent call last)
Cell In[46], line 1
----> 1 print("the addition of {} and {} is {}".format(num1,num2,add))

TypeError: format expected at most 2 arguments, got 3
```

```
In [47]: a=10
b=20
c=30
avg=(a+b+c)/3
print("the average of a,b,c is : avg")
print("the average of {},{},{} is : {}".format(a,b,c))
```

the average of a,b,c is : avg

```
-----
IndexError                                Traceback (most recent call last)
Cell In[47], line 6
      4 avg=(a+b+c)/3
      5 print("the average of a,b,c is : avg")
----> 6 print("the average of {},{},{} is : {}".format(a,b,c))

IndexError: Replacement index 3 out of range for positional args tuple
```

```
In [49]: print("=====ADDITION=====")
num1=1000
num2=200
add=num1+num2
# the addition of 100 and 200 is 300
print("the addition of 100 and 200 is 300")
print("the addition of {} and {} is {}".format(num1,num2,add))
print(f"the addition of {num1} and {num2} is {add}")

print("=====SUBTRACTION=====")

num1=100
num2=200
sub=num1-num2
print("the subtraction of num1 and num2 is sub")
print("the subtraction of {} and {} is {}".format(num1,num2,sub))
print(f"the subtraction of {num1} and {num2} is {sub}")

print("=====MULTIPLICATION=====")

num1=100
num2=200
div=num1/num2
print("the division of num1 and num2 is div")
print("the division of {} and {} is {}".format(num1,num2,div))
print(f"the division of {num1} and {num2} is {div}")

print("=====DIVISION=====")

a=10
b=20
c=30
```

```

avg=(a+b+c)/3
print("the average of a,b,c is : avg")
print("the average of {},{},{} is : {}".format(a,b,c,avg))
print(f"the average of {a},{b},{c} is : {avg}")

```

```

=====ADDITION=====
the addition of 100 and 200 is 300
the addition of 1000 and 200 is 1200
the addition of 1000 and 200 is 1200
=====SUBTRACTION=====
the subtraction of num1 and num2 is sub
the subtraction of 100 and 200 is -100
the subtraction of 100 and 200 is -100
=====MULTIPLICATION=====
the division of num1 and num2 is div
the division of 100 and 200 is 0.5
the division of 100 and 200 is 0.5
=====DIVISION=====
the average of a,b,c is : avg
the average of 10,20,30 is : 20.0
the average of 10,20,30 is : 20.0

```

```

In [50]: a=11
         b=20
         c=30
         avg=(a+b+c)/3
         print(avg)

```

20.333333333333332

round

```

In [52]: # print()
         # type()
         # int()
         # float()
         # str()
         # bool()
         # round()

         # CTRL+A
         # CTRL+/

```

```

In [53]: round(10.77777) # 10.7 ==> 11
         # 79.7 80

```

Out[53]: 11

```

In [54]: round(10.77777,2)

```

Out[54]: 10.78

```

In [55]: round(10.77777,3)

```

Out[55]: 10.778

```

In [56]: print(round(10.77777))
         print(round(10.77777,2))
         print(round(10.77777,3))

```

```
11
10.78
10.778
```

```
In [64]: a=11
         b=20
         c=30
         avg=(a+b+c)/3
         avg1=round(avg,2)
         print(avg1)
         print(round(avg,2))
```

```
20.33
20.33
```

```
In [58]: round(10.778,2)
```

```
Out[58]: 10.78
```

I have multiple print statements but i want to show in single line

```
In [65]: print(10)
         print(20)
```

```
10
20
```

```
In [67]: 10,20
```

```
Out[67]: (10, 20)
```

```
In [68]: print(10,20)
```

```
10 20
```

end

```
In [73]: print(10,end="====>")
         print(20)
```

```
10====>20
```

```
In [75]: print(10,end=" ")
         print(20,end=" ")
         print(30)
```

```
10 20 30
```

```
In [81]: print('hello',end=' ')
         print('how',end=' ')
         print('are',end=' ')
         print('you')
```

```
hello how are you
```

```
In [82]: print('hello how are you')
```

```
hello how are you
```

```
In [84]:
```

```
1 2 3 4 5 6 7 8 9
```

i have multiple values in a single print statement

i want print them with some separation

```
In [85]: print(10,20,30)
# 10 ===> 20 =====> 30
```

10 20 30

sep

```
In [91]: print(10,20,30,sep='====>')
```

10====>20====>30

- basic print statement
- we learn format method
- we learn f string method
- we learn round
- we learn end operator
- we learn sep operator

```
In [ ]: # wap take the radius of a circle calculate area of the circle
# var: radius var: pi=3.14
# formulae: pi*radius*radius
# print the answers using f string and format

# wap take the breadth and height of a right angle triangle
# calculate the area
# var1: breadth var2: height
# formulae : 0.5*breadth*height

# wap take the bill amount and tip amount
# calculate total bill
# var1: bill amount var2: tip amount
# formulae

# wap take the length and breadth of a rectangle calculate area
# var1: length var2: breadth
# formulae: length * breadth
```