In [2]:
```
i=32
i
```

Out[2]: 32

In [5]:
```
type(i) # type is a function it ends with()
```

Out[5]: int

In [6]:
```
f=110.32
f
```

Out[6]: 110.32

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

Out[7]: float

In [8]:
```
f1=1e0
f1
```

Out[8]: 1.0

In [9]:
```
f2=1e1
f2
```

Out[9]: 10.0

In [10]:
```
f3=1e2
f3
```

Out[10]: 100.0

In [12]:
```
f5=1E3
f5
```

Out[12]: 1000.0

In [16]:
```
a+b
a-b
```

Out[16]: -10

In [14]:
```
a=10
b=20
print(a+b)
print(a-b)
print(a*b)
```

```
30
-10
200
```

In [17]:
```
num1=20
num2=30
add=num1+num2
print('the addition of',num1,'and',num2,'is=',add)
```

```
the addition of 20 and 30 is= 50
```

In [18]:
```
c=1+2j
c
```

Out[18]:
```
(1+2j)
```

In [19]:
```
type(c)
```

Out[19]:
```
complex
```

In [20]:
```
c.real
```

Out[20]:
```
1.0
```

In [21]:
```
c.imag
```

Out[21]:
```
2.0
```

In [22]:
```
c=5+10j
d=10+20j
print(c+d)
print(c-d)
```

```
(15+30j)
(-5-10j)
```

In [23]:
```
def team():
    print('hello')
```

In [24]:
```
c2=1+2J
c2
```

Out[24]:
```
(1+2j)
```

In [27]:
```
b=true
b
```

```
---------------------------------------------------------------------------
NameError                                 Traceback (most recent call last)
Cell In[27], line 1
----> 1 b=true
      2 b

NameError: name 'true' is not defined
```

In [28]:
```
b=True
b
```

Out[28]: True

In [31]:
```
int(True)
```

Out[31]: 1

In [32]:
```
int(False)
```

Out[32]: 0

In [29]:
```
True+True
```

Out[29]: 2

In [33]:
```
False-True
```

Out[33]: -1

In [34]:
```
True-True*False+True
```

Out[34]: 2

TASK-2

In [1]:
```
a=9
b=8
a
b
```

Out[1]: 8

In [2]:
```
print(a)
print(b)
```

```
9
8
```

In [6]:
```
print(10)
print(20)
print('name')
print(10,20,'name')
```

```
10
20
name
10 20 name
```

In [7]:
```
Num1=2
Num2=3
print(Num1+Num2)
```

```
5
```

In [11]:
```
avg1=10
avg2=20
mul=avg1*avg2
print('the multiplication of',avg1,'and',avg2,'is=',mul)
```

```
the multiplication of 10 and 20 is= 200
```

In [14]:
```
pow1=4
pow2=4
sqt=pow1*pow2
print('the sqrt of',pow1,'and',pow2,'is=',sqt)
```

```
the sqrt of 4 and 4 is= 16
```

In [15]:
```
q1='hello'
q2='world'
print(q1,q2,'welcome to python')
```

```
hello world welcome to python
```

In [17]:
```
a1=50
a2=5
div=a1/a2
print('the div of {} and {} is={}'.format(a1,a2,div))
```

```
the div of 50 and 5 is=10.0
```

In [24]:
```
s1='task2'  #todays task2 is python datatypes
s2='python'
print('todays {} is {} datatypes'.format(s1,s2))
```

```
todays task2 is python datatypes
```

In [31]:
```
n1=100  # the avg of 100,200,300 is=141
n2=22
n3=300
avg=(n1+n2+n3)/3
print('the avg of {},{},{} is={}'.format(n1,n2,n3,avg))
```

```
the avg of 100,22,300 is=140.66666666666666
```

In [30]:
```
round(avg,0)
```

Out[30]:
```
141.0
```

In [39]:
```
a1=50
a2=5
div=a1/a2
print(f'the div of {a1} and {a2} is={div}')
```

```
the div of 50 and 5 is=10.0
```

In [42]:
```
s1='task2'  #todays task2 is python datatypes
s2='python'
print(f'todays {s1} is {s2} datatypes')
```

```
todays task2 is python datatypes
```

In [45]:
```
n1=100  # the avg of 100,200,300 is=141
n2=22
n3=300
avg=(n1+n2+n3)/3
print(f'the avg of {n1},{n2},{n3} is={avg}',round(avg,0))
```

```
the avg of 100,22,300 is=140.66666666666666 141.0
```

In [51]:
```
print('the avg of',n1,n2,n3,'is=',avg)
print('the avg of {},{},{} is={}'.format(n1,n2,n3,avg),round(avg,0))
print(f'the avg of {n1},{n2},{n3} is={avg}',round(avg,0))
```

```
the avg of 100 22 300 is= 140.66666666666666
the avg of 100,22,300 is=140.66666666666666 141.0
the avg of 100,22,300 is=140.66666666666666 141.0
```

In [54]:
```
print('he',end='')
print('llo')
```

```
hello
```

In [68]:
```
print(1,2,3,sep='@')
```

```
1@2@3
```

In [76]:
```
print('my' , 'name',' is',' Ramya',sep='@')
```

```
my@name@ is@ Ramya
```

In [70]:
```
print('ha',end='')
print('i')
```

```
hai
```

In [74]:
```
print('im','ramya',sep="_")
```

```
im_ramya
```

In [72]:
```
print('hello','hai','how are you',sep='--->')
```

```
hello--->hai--->how are you
```

In [79]:
```
print('a' , 'gull' , 'is' , 'a' , 'bird', sep='')
```

```
agullisabird
```

In [93]:
```
print('radish ,jackfruit', end=' ') # radish jackfruit onion2tomato2
print('onion','tomato','cucumber','mushroom',sep='2')
```

```
radish ,jackfruit onion2tomato2cucumber2mushroom
```

In [ ]:
```

```