Print

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(10,20)
print('python')
print(10,20,'python')
```

```
10
10 20
python
10 20 python
```

In [4]:
```
num1=20
num2=30
add=num1+num2
print(add)
```

```
50
```

print result with string

In [5]:
```
num1=20
num2=30
add=num1+num2
print('The addition of',num1,'add',num2,'is=',add)
```

```
The addition of 20 add 30 is= 50
```

In [6]:
```
name='Python'
age=20
city='hyd'
```

In [7]:
```
print('My name is',name,'and i am',age,'years old from',city)
```

```
My name is Python and i am 20 years old from hyd
```

print format method

In [8]:
```
num1=20
num2=30
add=num1+num2
print('The addition of {} and {} is= {}'.format(num1,num2,add))
```

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

In [10]:
```
name='Python'
age=20
city='hyd'
print('hello my name is {}, and i am {} years old from {}'.format(name,age,city))
```

```
hello my name is Python, and i am 20 years old from hyd
```

In [12]:
```
num1=100
num2=25
num3=333
avg=(num1+num2+num3)/3
avg1=round((num1+num2+num3)/3,2)
print('The average of {}, {}, and {} is= {} or {}'.format(num1,num2,num3,avg,avg
```

```
The average of 100, 25, and 333 is= 152.66666666666666 or 152.67
```

In [13]:
```
round(avg,2)
```

Out[13]:
```
152.67
```

More short format method(f string method)

In [14]:
```
num1=20
num2=30
add=num1+num2
print(f'The addition of {num1} and {num2} is= {add}')
```

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

In [15]:
```
name='Python'
age=20
city='hyd'
print(f'hello my name is {name}, and i am {age} year old, from{city}.')
```

```
hello my name is Python, and i am 20 year old, fromhyd.
```

In [16]:
```
num1=100
num2=25
num3=333
avg=round((num1+num2+num3)/3,2)
print(f'The average of {num1},{num2} and {num3} is= {avg}')
```

```
The average of 100,25 and 333 is= 152.67
```

In [17]:
```
num1=20
num2=20
add=num1+num2
print('The addition of', num1,'and',num2,'is=',add)
print('The addition of {} and {} is= {}'.format(num1,num2,add))
print(f'The addition of {num1} and {num2} is= {add}')
```

```
The addition of 20 and 20 is= 40
The addition of 20 and 20 is= 40
The addition of 20 and 20 is= 40
```

end statement

In [18]:
```
print('hello')
print('good morning')
```

```
hello
good morning
```

In [19]:
```
print('hello',end=' ')
print('world good day')
```

```
hello world good day
```

separator

In [20]:
```
print('hello','hi','how are you',sep='--->')
```

```
hello--->hi--->how are you
```

In [21]:
```
print('hello','hi','how are you',sep='&')
```

```
hello&hi&how are you
```

In [22]:
```
print('hello','hi','how are you',sep='@')
```

```
hello@hi@how are you
```

In [23]:
```
print('hello','hi','how are you',sep=' ')
```

```
hello hi how are you
```

In [24]:
```
print(3,'.',sep='')
```

```
3.
```

In [25]:
```
print(1,2,end=' ')
print(3,'.',sep='')
```

```
1 2 3.
```

variable

In [ ]:
```
age=25
print(age)
```

In [27]:
```
name='Alice'
print(name)
```

```
Alice
```

In [28]:
```
price=19.99
print(price)
```

```
19.99
```

In [29]:
```
is_active=True
print(is_active)
```

```
True
```

1.Storing and Printing value

In [1]:
```
x=10
print(x)
```

```
10
```

2.Using variables in Expressions

In [2]:
```
a=5
b=3
result=a+b
print(result)
```

```
8
```

3.Changing the value of a variable

initial value

In [3]:
```
score=50
print(score)
```

```
50
```

changing the value of 'score'

In [4]:
```
score=100
print(score)
```

```
100
```

4.concetanening Strings

assigning values to variables

In [5]:
```
first_name='John'
last_name='Doe'

full_name=first_name + ' ' +last_name
print(full_name)
```

```
John Doe
```

5.Using variables in a calculation

In [6]:
```
length=10 #assigning values to variables
width=5

area=length*width #calculating the area of a rectangle
print(area)
```

```
50
```

In [36]:
```
#Reassigning values to variables

x=10 #initial value of x
print(x)
```

```
10
```

In [37]:
```
x=20 #reassigning the value of x
print(x)
```

```
20
```

In [26]:
```
import keyword
keyword.kwlist
```

Out[26]:
```
['False',
 'None',
 'True',
 'and',
 'as',
 'assert',
 'async',
 'await',
 'break',
 'class',
 'continue',
 'def',
 'del',
 'elif',
 'else',
 'except',
 'finally',
 'for',
 'from',
 'global',
 'if',
 'import',
 'in',
 'is',
 'lambda',
 'nonlocal',
 'not',
 'or',
 'pass',
 'raise',
 'return',
 'try',
 'while',
 'with',
 'yield']
```

In [ ]:

In [10]:
```
i=30
i
```

Out[10]: 30

In [11]:
```
type(i)
```

Out[11]: int

In [12]:
```
f=100.2
f
```

Out[12]: 100.2

In [13]:
```
type(f)
```

Out[13]: float

In [14]:
```
f1=1e0
f1
```

Out[14]: 1.0

In [15]:
```
f2=1e1
f2
```

Out[15]: 10.0

In [16]:
```
f3=1E2
f3
```

Out[16]: 100.0

In [17]:
```
a=10
b=20
```

In [18]:
```
a + b
a - b
a * b
a / b
```

Out[18]: 0.5

In [19]:
```
print(a+b)
print(a-b)
print(a*b)
print(a/b)
```

```
30
-10
200
0.5
```

In [20]:
```
num1=20
num2=30
```

```
add=num1+num2
print('The addition of two number',num1,'and',num2,'is=',add)
```

```
The addition of two number 20 and 30 is= 50
```

In [21]:
```
num1=20
num2=30
add=num1+num2
print('The addition of {} and {} is= {}'.format(num1,num2,add))
```

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

In [22]:
```
num1=20
num2=30
num3 = 40

add=num1+num2+num3

print('The addition of {} and {} and {} is= {}'.format(num1,num2,num3,add))
```

```
The addition of 20 and 30 and 40 is= 90
```

In [23]:
```
c = 1 + 2j
c
```

Out[23]: (1+2j)

In [25]:
```
type(c)
```

Out[25]: complex

In [38]:
```
c=1+2j
c.real
```

Out[38]: 1.0

In [39]:
```
c.imag
```

Out[39]: 2.0

In [40]:
```
c=5+10j
d=10+20j
print(c+d)
print(c-d)
```

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

In [41]:
```
b=True
b
```

Out[41]: True

In [44]:
```
b1=True
b1
```

Out[44]: True

In [45]:
```
b2=False
b2
```

Out[45]: False

In [48]:
```
int(True)
```

Out[48]: 1

In [47]:
```
int(False)
```

Out[47]: 0

In [49]:
```
True+True
```

Out[49]: 2

In [7]:
```
True-False
```

Out[7]: 1

In [8]:
```
False-True
```

Out[8]: -1

In [9]:
```
True-True*False+False
```

Out[9]: 1

In [ ]:
```

```