

```
In [1]: a=10  
b=20  
print(a+b)
```

30

```
In [2]: a=int(input())  
b=int(input())  
print(a+b)
```

12

4

16

```
In [3]: for x in range(2):  
        a=int(input())  
        b=int(input())  
        print("Total is :",a+b)  
        print("-----")
```

5

6

Total is : 11

-----

67

98

Total is : 165

-----

```
In [4]: for x in "ABC":  
        a=int(input())  
        b=int(input())  
        print("Total is :",a+b)  
        print("-----")
```

2

7

Total is : 9

-----

3

8

Total is : 11

-----

7

9

Total is : 16

-----

```
In [1]: ab=int(input("please enter the range: "))
        for x in range(ab):
            a=int(input())
            b=int(input())
            print("total is :",a+b)
            print("-----")
```

```
please enter the range: 2
7
9
total is : 16
-----
9
8
total is : 17
-----
```

```
In [1]: ab=int(input("plase enter the range: "))
        for x in range (5,ab):
            a=int(input())
            b=int(input())
            print("Total is :",a+b)
            print("-----")
```

```
plase enter the range: 2
```

```
In [1]: ab=int(input("please enter the start value:"))
        ac=int(input("please enter the end value:"))
        for x in range(ab,ac,5):
            a=int(input())
            b=int(input())
            print("Total is :",a+b)
            print("-----")
```

```
please enter the start value:2
please enter the end value:8
6
8
Total is : 14
-----
8
9
Total is : 17
-----
```

```
In [2]: ab=int(input("please enter the start value:"))
ac=int(input("please enter the end value:"))
for x in range(ab,ac,5):
    print(x)
```

```
please enter the start value:5
please enter the end value:51
5
10
15
20
25
30
35
40
45
50
```

## Working With If else Statement

```
In [4]: m=int(input("Enter the Marks: "))
if m>0 and m<35:
    print("You are failed.....")
else:
    print("You are passed.....")
```

```
Enter the Marks: 34
You are failed.....
```

```
In [1]: for x in "A B":
    print(" this is me.....",x)
    m=int(input("enter the marks: "))
    if m>0 and m<35:
        print("You are Failed.....")
    else:
        print("You are passed.....")
```

```
this is me..... A
enter the marks: 87
You are passed.....
this is me.....
enter the marks: 45
You are passed.....
this is me..... B
enter the marks: 32
You are Failed.....
```

```
In [2]: for x in "AB":  
        print("This is me....",x)  
        m=int(input("Enter the marks: "))  
        if m>0 and m<35:  
            print("you are failed.....")
```

```
This is me.... A  
Enter the marks: 45  
This is me.... B  
Enter the marks: 34  
you are failed.....
```

## Working with list

```
In [3]: name=["sagar","mahi","rohit","puja"]  
        print(name)
```

```
['sagar', 'mahi', 'rohit', 'puja']
```

```
In [4]: print(type(name))
```

```
<class 'list'>
```

```
In [6]: name=["sagar","mahi","rohit","puja"]  
        print(len(name))  
        print(name[0])
```

```
4  
sagar
```

```
In [7]: ab=name[0]  
        print(ab)
```

```
sagar
```

```
In [9]: name=["sagar","mahi","rohit","puja"]  
        ab=name[:3]  
        print(ab)
```

```
['sagar', 'mahi', 'rohit']
```

```
In [4]: name=["sagar","mahi","rohit","puja"]  
        ab=name[5:3]  
        print(ab)
```

```
[]
```

```
In [5]: name=["sagar","mahi","rohit","puja","priya"]
ab=name[5:3]
print(ab)

[]
```

```
In [6]: name=["sagar","mahi","rohit","puja","priya"]
ab=name[2:-2]
print(ab)

['rohit']
```

```
In [8]: name=["sagar","mahi","rohit","puja","priya"]
ab=name[-4:-1]
print(ab)

['mahi', 'rohit', 'puja']
```

```
In [9]: name=["sagar","mahi","rohit","puja","priya"]
ab=name[:]
print(ab)

['sagar', 'mahi', 'rohit', 'puja', 'priya']
```

## Insert in list

```
In [10]: name=["sagar","mahi","rohit","puja","priya"]
name.append("rohit")
print(name)

['sagar', 'mahi', 'rohit', 'puja', 'priya', 'rohit']
```

```
In [11]: ab=input("enter the value..")
name=["sagar","mahi","rohit","puja","priya"]
name.append(ab)
print(name)

enter the value..mona
['sagar', 'mahi', 'rohit', 'puja', 'priya', 'mona']
```

```
In [12]: ab=input("enter the value..")
name=["sagar","mahi","rohit","puja","priya"]
name.insert(1,ab)
print(name)

enter the value..mona
['sagar', 'mona', 'mahi', 'rohit', 'puja', 'priya']
```

```
In [13]: ab=input("enter the value..")
name=["sagar","mahi","rohit","puja","priya"]
name.insert(-1,ab)
print(name)
```

```
enter the value..rohit
['sagar', 'mahi', 'rohit', 'puja', 'rohit', 'priya']
```

```
In [15]: ab=input("enter the value..")
name=["sagar","mahi","rohit","puja","priya"]
name.insert(4,ab)
print(name)
```

```
enter the value..vaishu
['sagar', 'mahi', 'rohit', 'puja', 'vaishu', 'priya']
```

```
In [16]: name=["sagar","mahi","rohit","puja","priya"]
name.pop()
print(name)
```

```
['sagar', 'mahi', 'rohit', 'puja']
```

```
In [17]: name=["sagar","mahi","rohit","puja","priya"]
name.remove("mahi")
print(name)
```

```
['sagar', 'rohit', 'puja', 'priya']
```

```
In [18]: name=["sagar","mahi","rohit","puja","priya"]
name.clear()
print(name)
```

```
[]
```

```
In [19]: name=["sagar","mahi","rohit","puja","priya"]
del name
print()
```

```
In [20]: city=["pune","nashik","mumbai","latur"]
for x in city:
    if x=="nashik":
        a=20
        b=30
        print("this is total:",a+b)
    else:
        print("this is not nashik:",x)
```

```
this is not nashik: pune
this is total: 50
this is not nashik: mumbai
this is not nashik: latur
```

```
In [10]: passwords=["pune","mumbai","nashik","nagpur","latur"]
pas=input("enter the passawords")
for x in passwords:
    for x in range(2):
        if x==pas:
            print("This is old: ",x)
            break
        else:
            print("I am here...")
```

```
enter the passawordspune
I am here...
I am here...
I am here...
I am here...
I am here...
I am here...
I am here...
I am here...
I am here...
I am here...
```

```
In [12]: city=["pune","mumbai","nashik","nagpur","latur"]
New_city=[]
for x in city:
    ab=x+"007"
    New_city.append(ab)
print(New_city)

['pune007', 'mumbai007', 'nashik007', 'nagpur007', 'latur007']
```

```
In [2]: gen=["pooja","sagar","sahil","seema","meena","yash"]
girls=["pooja","seema","meena"]
boys=["sagar","sahil","yash"]
boys_hostel=[]
girls_hostel=[]
for x in gen:
    if x in girls:
        girls_hostel.append(x)
    else:
        boys_hostel.append(x)

print("girls hostel:",girls_hostel)
print("boys hostel:",boys_hostel)
```

```
girls hostel: ['pooja', 'seema', 'meena']
boys hostel: ['sagar', 'sahil', 'yash']
```

```
In [ ]:
```