

In [1]:

```
#TUPLE
t=(10,20,30,40,20,20)
res=t.count(20)
print(res)
a=t.index(20)
print(a)
```

3
1

In [2]:

```
#if u want to change tuple ,convert it to list and change it and then,convert back to tuple
#SET
s={1,1,1,2,2,3,3,5,6}
print(s)
s1={1,2,3,4}
s2={3,4,5,6}
res1=s1.intersection(s2) # common ele from both objects
print(res1)
res2=s1.union(s2) # combine all elements
print(res2)
res3=s1.difference(s2) # removes common ele and prints remaining in s1
print(res3)
#add,copy,clear,discard,isdisjoint...
```

{1, 2, 3, 5, 6}
{3, 4}
{1, 2, 3, 4, 5, 6}
{1, 2}

In [3]:

```
#to check whether a nmber is even or odd
Number=int(input("Enter a number : "))
if(Number%2==0):
    print(str(Number) + " is even")
else:
    print(str(Number) + " is odd")
```

Enter a number : 12
12 is even

In [4]:

```
a=int(input())
print("even") if a%2==0 else print("odd")
```

67
odd

In [1]:

```
a=int(input("Enter : "))
if(a==1):
    print("Monday")
elif(a==2):
    print("Tuesday")
elif(a==3):
    print("Wednesday")
elif(a==4):
    print("Thursday")
elif(a==5):
    print("Friday")
elif(a==6):
    print("Saturday")
else:
    print("Sunday")
```

Enter : 5
Friday

In [8]:

```
#if num>0 and <20 and even weird
#if not normal
#if >=20 <30 nrml
#if >=30 odd nrml
#if not weird

Number=int(input("Enter a number : "))
if(Number>0 and Number<20):
    if(Number%2==0):
        print("Weird")
    else:
        print("Odd")
elif(Number>=20 and Number<30):
    print("Normal")
elif(Number>=30 and Number%2!=0):
    print("Normal")
else:
    print("Weird")
```

Enter a number : 12
Weird

In [5]:

```
#DICTIONARY
student_details={
    'Rollno 1':{'Name':"John","Class":7,"Marks":96.4},
    'Rollno 2':{'Name':"Alex","Class":8,"Marks":94.4},
    'Rollno 3':{'Name':"Teja","Class":8,"Marks":94.4},
    'Rollno 4':{'Name':"Sakshi","Class":10,"Marks":93.4}
}
print(student_details['Rollno 4'])
print(student_details)
#student_details.update(to add ele(dict value not key) into it)

#TO get value
student_details.update({'Rollno 5':"Manas"})
print(student_details)
```

{'Name': 'Sakshi', 'Class': 10, 'Marks': 93.4}
{'Rollno 1': {'Name': 'John', 'Class': 7, 'Marks': 96.4}, 'Rollno 2': {'Name': 'Alex', 'Class': 8, 'Marks': 94.4}, 'Rollno 3': {'Name': 'Teja', 'Class': 8, 'Marks': 94.4}, 'Rollno 4': {'Name': 'Sakshi', 'Class': 10, 'Marks': 93.4}}
{'Rollno 1': {'Name': 'John', 'Class': 7, 'Marks': 96.4}, 'Rollno 2': {'Name': 'Alex', 'Class': 8, 'Marks': 94.4}, 'Rollno 3': {'Name': 'Teja', 'Class': 8, 'Marks': 94.4}, 'Rollno 4': {'Name': 'Sakshi', 'Class': 10, 'Marks': 93.4}, 'Rollno 5': 'Manas'}

In [3]:

```
d={}
#To add value
d.update({'key1':'value1'})
d.update({'key2':'value2'})
print(d)
d.update({'key1':'value3'}) # no error,it gets updated
print(d)
print(d.get())
```

{'key1': 'value1', 'key2': 'value2'}
{'key1': 'value3', 'key2': 'value2'}

In [10]:

```
for i in range(1,10):
    print(i*i,end=" ")
```

1 4 9 16 25 36 49 64 81

In [11]:

```
l=[56,43,78,345,789,"hello",[1,2,3,4]]
print(l.index(78))
```

2

In [15]:

```
# LIST COMPREHENSIONS
l=[i for i in range(0,10) if i%2==0]
print(l)
```

[0, 2, 4, 6, 8]

In [24]:

```
l=[i for i in range(1,101) if(i%7==0) and (i%11==0)]
print(l)
m=[i for i in range(101,-1,-1)]
print(m)
l=[1,2,3,-23,-234,-1234,1234,23456]
pos_sum=sum([x for x in l if(x>0)])
neg_sum=sum([i for i in l if(i<0)])
print(pos_sum)
print(neg_sum)
```

[77]
[101, 100, 99, 98, 97, 96, 95, 94, 93, 92, 91, 90, 89, 88, 87, 86, 85, 84, 83, 82, 81, 80, 79, 78, 77, 76, 75, 74, 73, 72, 71, 70, 69, 68, 67, 66, 65, 64, 63, 62, 61, 60, 59, 58, 57, 56, 55, 54, 53, 52, 51, 50, 49, 48, 47, 46, 45, 44, 43, 42, 41, 40, 39, 38, 37, 36, 35, 34, 33, 32, 31, 30, 29, 28, 27, 26, 25, 24, 23, 22, 21, 20, 19, 18, 17, 16, 15, 14, 13, 12, 11, 10, 9, 8, 7, 6, 5, 4, 3, 2, 1, 0]
24696
-1491

In [5]:

```
arr=list(map(int,input().split(' ')))
p,n=0,0
for i in arr:
    if i<0:
        n+=i
    else:
        p+=i
print(p+n)
```

1 34 -5 22 -10
42