

In [1]:

```
var1=6
var2=4
var3=int(input("enter the number"))    # only 2 condition then we use only if else
if var3>var2:
    print("Greater the number")
else:
    print("It the lesser number")
```

enter the number45  
Greater the number

In [2]:

```
var1=67
var2=int(input("enter the 2nd number"))    # more then 2 condition then we use elif
var3=int(input("enter the 3rd number"))
if var1<var2:
    print("it is less number")
elif var2==var3:
    print("equal the number")
else:
    print("it is greater number")
```

enter the 2nd number34  
enter the 3rd number78  
it is greater number

In [3]:

```
list1=[34,56,89,45]
if 56 in list1:
    print("yes")
else:
    print("no")
```

yes

In [4]:

```
list1=[34,56,89,45]
a=int(input("enter the number"))
if a in list1:
    print("yes")
else:
    print("no")
```

enter the number56  
yes

In [5]:

```
list1=[34,56,89,45]
a=int(input("enter the number"))
if a in list1:
    print("yes")
else:
    print("no")
```

enter the number83  
no

In [6]:

```
# # quiz
# give the input from users for whose age is below 18 they can not drive,whose is 18 they a
# whose age is above 18 the can drive.
```

In [7]:

```
print("what is your age")
age=int(input("enter the age"))
if age<18:
    print("can not drive")
elif age==18:
    print("come physically testing")
else:
    print("they can drive")
```

what is your age  
enter the age24  
they can drive

In [8]:

```
print("what is your age")
age=int(input("enter the age"))
if age<18:
    print("can not drive")
elif age==18:
    print("come physically testing")
else:
    print("they can drive")
```

what is your age  
enter the age12  
can not drive

In [9]:

```
a=int(input("enter the 1st number"))  
b=int(input("enter the 2nd number"))  
d=a+b  
print("addition of two numbers",d)
```

enter the 1st number34

enter the 2nd number56

addition of two numbers 90

In [10]:

```
# check the number where it is prime or not.
#prime number- it divide one and itself
n=int(input("enter the number"))
for i in range(2,n):
    if n%i==0:
        print(n,"is not a prime number")
    else:
        print(n,"is a prime number")
```

[illegible]

59 is a prime number  
59 is a prime number  
59 is a prime number  
59 is a prime number  
59 is a prime number  
59 is a prime number  
59 is a prime number  
59 is a prime number

In [11]:

```
# prime number or not
n=int(input("enter the number"))
for i in range(2,n):
    if n%i==0:
        print(n,"is not a prime number")
        break
    else:
        print(n,"is a prime number")
```

enter the number927890  
927890 is not a prime number

In [12]:

```
# To find numbers is even or odd
b=int(input("enter the number"))
if b%2==0:
    print("it is even number")
else:
    print("it is odd number ")
```

enter the number5643  
it is odd number

In [13]:

```
for x in range(3):
    b=int(input("enter the number"))
    if b%2==0:
        print("it is even number")
    else:
        print("it is odd number ")
```

enter the number34  
it is even number  
enter the number90  
it is even number  
enter the number12  
it is even number

In [14]:

```
city=["pune","mumbai","goa","nashik","latur"]
for x in city:
    if x=="goa":
        a=39
        b=78
        print("this is total:",a+b)
    else:
        print("this is not goa:",x)
```

```
this is not goa: pune
this is not goa: mumbai
this is total: 117
this is not goa: nashik
this is not goa: latur
```

In [15]:

```
for t in range (2):
    city=["pune","solapur","goa","mumbai","solapur"]
    a=input("enter the city name")
    for x in city:
        if a==x:
            print("login sucessfully",x)
        else:
            print("please enter the valid city",x)
```

```
enter the city namegoa
please enter the valid city pune
please enter the valid city solapur
login sucessfully goa
please enter the valid city mumbai
please enter the valid city solapur
enter the city namesolapur
please enter the valid city pune
login sucessfully solapur
please enter the valid city goa
please enter the valid city mumbai
login sucessfully solapur
```

In [21]:

```
# we have the list of students sepeater them in boys and girl hostel
students=["pooja","kiran","sagar","komal","seema","sahil","riya","suraj","meena"]
boys=["kiran","sagar","sohel","suraj"]
girls=["pooja","komal","seema","riya","meen"]
boys_hostel=[]
girls_hostel=[]
for x in students:
    if x in boys:
        boys_hostel.append(x)
    else:
        girls_hostel.append(x)

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

```
['kiran', 'sagar', 'suraj'] :all boys in boys hostel
['pooja', 'komal', 'seema', 'sahil', 'riya', 'meena'] :all girls in girls ho
stel
```

In [1]:

```
# add some value after a city
city=["pune","mumbai","nashik","goa","surat"]
new_city=[]
for x in city:
    ab=x+"005"
    new_city.append(ab)
print(new_city)
```

```
['pune005', 'mumbai005', 'nashik005', 'goa005', 'surat005']
```

In [1]:

```
# student mark grading system
for x in range(5):
    m=int(input("enter the mark"))
    if m>0 and m<35:
        print("you are failed")
    elif m>35 and m<60:
        print("you got distinction")
    elif m>60 and m<80:
        print("you got first class")
    else:
        print("you got A++")
```

```
enter the mark78
you got first class
enter the mark13
you are failed
enter the mark67
you got first class
enter the mark45
you got distinction
enter the mark90
you got A++
```

In [5]:

```
for x in 'AB':                                # here in ab mean there is two alphabets it means that
    print("This is me...",x)
    m=int(input("enter the number"))
    if m>0 and m<35:
        print("you are failed")
    else:
        print("you are pass")
```

```
This is me... A
enter the number46
you are pass
This is me... B
enter the number24
you are failed
```

In [ ]: