

```
In [1]: #two inputs from user and check whether they are equal or not
print("enter the first number")
a=input()
print("enter the second number")
b=input()
print(first== second)
```

```
enter the first number
4
enter the second number
4
True
```

```
In [8]: #Take 3 inputs from user and check i)all are equal ii)any of two are equal( use and or )
print("enter the first number")
a=input()
print("enter the second number")
b=input()
print("enter third number")
c=input()
if(a==b and b==c and c==a):
    print("all are equal")
elif(a==b or b==c or c==a):
    print("only two of them are equal")
else:
    print("none of them are equal")
```

```
enter the first number
1
enter the second number
2
enter third number
1
only two of them are equal
```

```
In [10]: #Take two number and check whether the sum is greater than 5, less than 5 or equal to 5.

a = int(input("Enter first number"))
b = int(input("Enter second number"))
x=5
if((a+b)>x):
    print ("Sum is greater than 5")
elif((a+b)==x):
    print ("Sum is equal to 5")
elif((a+b)<x):
    print ("Sum is lesser than 5")

Enter first number1
Enter second number2
Sum is lesser than 5
```

```
In [12]: #Suppose passing marks of a subject is 35. Take input of marks from use r and check whether it is greater than passing marks or not.
passmarks=35
score=int(input("enter scored markes"))
if(score>passmarks):
    print("marks is greater than passing marks")
else:
    print("marks is less than passing marks")

enter scored markes20
marks is less than passing marks
```

```
In [14]: #max of three numbers
def max_of_two( x, y ):
    if x > y:
        return x
    return y
a=int(input("enter a="))
b=int(input("b="))
c=int(input("c="))
def max_of_three( x, y, z ):
```

```
    return max_of_two( x, max_of_two( y, z ) )
print(max_of_three(a, b, c))
```

```
enter a=1
b=3
c=2
3
```

In [15]: *# Python Program to Reverse a Number using While loop*

```
Number = int(input("Please Enter any Number: "))
Reverse = 0
while(Number > 0):
    Reminder = Number %10
    Reverse = (Reverse *10) + Reminder
    Number = Number //10

print("\n Reverse of entered number is = %d" %Reverse)
```

Please Enter any Number: 345

Reverse of entered number is = 543

In [16]: *#Python Function to check the prime number*

```
def check_prime(n):
    flag = True
    for x in range(2, n//2):
        if n % x == 0:
            flag = False

    return flag

if __name__ == "__main__":
    n = int(input('Enter any integer number : '))
    result = check_prime(n)
    print("Prime Number " if (result) else 'Not prime Number')
```

```
Enter any integer number : 3
Prime Number
```

```
In [3]: #use try except else and finally block to check whether number is palin  
drome or not  
s=int(input('enter a number:'))  
m=s  
rev=0  
try:  
    while s>0:  
        r=s%10  
        rev=(rev*10)+r  
        s=s//10  
    if(m==rev):  
        print('its a palindrom')  
    else:  
        print('its not palindrom')  
except:  
    print('nothing to do')  
else:  
    print('checked')  
finally:  
    print('ended')
```

```
enter a number:123454321  
its a palindrom  
checked  
ended
```

```
In [2]: #python function to find sum of squares of first n natural numbers  
def squaresum(n) :  
    return (n * (n + 1) * (2 * n + 1)) // 6  
n = int(input())  
print(squaresum(n))
```

```
4  
30
```

```
In [20]: # Python Program to find Area Of Circle using Diameter
```

```
import math

radius = float(input(' Please Enter the radius of a circle: '))
area= math.pi * radius * radius
print(" Area of Circle = %.2f" %area)
```

Please Enter the radius of a circle: 4  
Area of Circle = 50.27

```
In [21]: # program to find area of regular polygon using math function
from math import tan, pi
n_sides = int(input("Input number of sides: "))
s_length = float(input("Input the length of a side: "))
p_area = n_sides * (s_length ** 2) / (4 * tan(pi / n_sides))
print("The area of the polygon is: ",p_area)
```

Input number of sides: 5  
Input the length of a side: 6  
The area of the polygon is: 61.93718642120282

```
In [22]: # Python3 Program to find area of segment of a circle
import math
pi = 3.14159
def area_of_segment(radius, angle):
    area_of_sector = pi * (radius * radius) * (angle / 360)
    area_of_triangle = 1 / 2 *(radius * radius) *math.sin((angle * pi) /
180)

    return area_of_sector - area_of_triangle;

radius = 10.0
angle = 90.0
print("Area of minor segment =", area_of_segment(radius, angle))
print("Area of major segment =", area_of_segment(radius, (360 - angle
)))
```

Area of minor segment = 28.53975000004401  
Area of major segment = 285.61924999996039

```
In [23]: from random import shuffle
list = [100,1,2, 3, 30, 40, 'hai', 'hello']
shuffle(list)
print(list)
```

```
[30, 2, 40, 1, 'hai', 3, 'hello', 100]
```

```
In [3]: import random

randomList = []

for i in range(0, 10000):
    randomList.append(random.randrange(1, 1000,50))

print("Printing list of random numbers")
print(randomList)
```

```
Printing list of random numbers
[951, 851, 451, 601, 101, 1, 901, 551, 51, 601, 901, 101, 601, 301, 20
1, 301, 151, 51, 401, 851, 451, 451, 601, 451, 1, 601, 601, 651, 251, 5
1, 951, 51, 201, 651, 51, 601, 401, 951, 701, 651, 851, 701, 151, 551,
451, 601, 551, 51, 601, 101, 651, 951, 801, 701, 701, 351, 351, 701, 15
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201, 101, 301, 101, 701, 551, 501, 601, 301, 251, 701, 551, 551, 551, 1
51, 451, 801, 601, 851, 151, 151, 301, 901, 701, 851, 251, 851, 101, 90
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501, 651, 801, 101, 801, 51, 551, 751, 751, 301, 901, 951, 551, 151, 80
1, 151, 601, 201, 851, 1, 601, 151, 651, 51, 401, 501, 1, 951, 51, 551,
301, 751, 651, 1, 901, 201, 401, 501, 251, 751, 51, 301, 801, 851, 351,
351, 551, 51, 601, 951, 151, 601, 1, 301, 851, 51, 801, 101, 51, 701, 4
01, 401, 351, 201, 901, 301, 151, 701, 301, 751, 701, 951, 51, 651, 30
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1, 601, 351, 251, 201, 301, 901, 351, 651, 951, 951, 451, 751, 451, 801, 51, 501]
```

```
In [61]: import math
print("sin 60=",math.sin(60))
print("cos pi=",math.cos(math.pi))
print("tan 90=",math.tan(90))
print("angle of sin 0.866025=",math.sin(0.8660254037844386))
print("5^8=",math.pow(5,8))
print("square root of 400=",math.sqrt(400))
print("5^e=",math.pow(5,math.e))
print("log(1024)base 2=",math.log2(1024))
print("log(1024)base 10=",math.log10(1024))
print("floor value of(23.56)=",math.floor(23.4))
print("ceeling value of 23.56=",math.ceil(23.56))
```

```
sin 60= -0.3048106211022167
cos pi= -1.0
tan 90= -1.995200412208242
angle of sin 0.866025= 0.015114994701951814
5^8= 390625.0
square root of 400= 20.0
5^e= 79.43235916621322
log(1024)base 2= 10.0
log(1024)base 10= 3.010299956639812
floor value of(23.56)= 23
ceeling value of 23.56= 24
```

In [ ]:

In [ ]: