**Programs in Python**

**# To add two numbers**

a=10

b=20

c=a+b

print("sum=",c)

**# find greater number between two numbers**

a=int(input("enter a value"))

b=int(input("enter another value"))

if a>b:

print("a is greater than b")

elif b>a:

print("b is greater than a")

else:

print("both values are equal")

**# find greatest number among three numbers using logical & operator**

a=int(input("enter a value"))

b=int(input("enter a value"))

c=int(input("enter a value"))

if a>b & a>c:

print("a is greatest")

elif b>a & b>c:

print("b is greatest")

else:

print("c is greatest")

**# find greatest number among three numbers using Nested if**

a=int(input("enter a value"))

b=int(input("enter a value"))

c=int(input("enter a value"))

if a>b:

if a>c:

print("a is greatest")

else:

print("c is greatest")

elif b>c:

print("b is greatest")

else:

print("c is greatest")

**# find given number is Even or Odd**

num=int(input("enter a number"))

if num%2==0:

print("number is even")

else:

print("number is odd")

**# Print 1-10 numbers using while loop**

a=1

while a<=10:

print(a)

a+=1

**# print sum of first 5 natural numbers**

a=5

sum=0

i=1

while i<=a:

sum=sum+i

i+=1

print("sum= ",sum)

**# print multiplication table of a given number**

a=int(input("enter a number"))

i=0

while i<=20:

r=a\*i

print(a," x ",i," = ",r)

i+=1

**# sum of series: 1+x+x2+x3+----+xn**

x=int(input("enter value of x"))

n=int(input("enter value of n"))

s=0

for i in range(0,n+1):

s=s+x\*\*i

print(s)

**# Python Program to find Prime Number**

Number = int(input(" Please Enter any Number: "))

count = 0

i = 2

while(i <= Number//2):

if(Number % i == 0):

count = count + 1

break

i = i + 1

if (count == 0 and Number != 1):

print(" %d is a Prime Number" %Number)

else:

print(" %d is not a Prime Number" %Number)

**# Python Program to find Prime Number using functions**

def finding\_factors(Number):

count = 0

for i in range(2, (Number//2 + 1)):

if(Number % i == 0):

count = count + 1

return count

Num = int(input(" Please Enter any Number: "))

cnt = finding\_factors(Num)

if (cnt == 0 and Num != 1):

print(" %d is a Prime Number" %Num)

else:

print(" %d is not a Prime Number" %Num)