**Program 1:**

Write a python program to test a given number is prime or not.

number = int(input("Enter any number: "))

if number > 1:

for i in range(2, number):

if (number % i) == 0:

print(number, "is not a prime number")

break

else:

print(number, "is a prime number")

else:

print(number, "is not a prime number")

**Program 2:**

Write a program to generate odd numbers from m to n using while loop

minimum = int(input("Please Enter the Minimum Value :"))

maximum = int(input("Please Enter the Maximum Value : "))

while minimum <= maximum:

if(minimum % 2 != 0):

print("{0}".format(minimum))

minimum = minimum + 1

**Program 3:**

Write a Python program to display prime number series up to given number.

a = int(input ("Enter the value of a : "))

b = int(input ("Enter the value of b : "))

print ("The Prime Numbers are: ")

for number in range (a, b + 1):

if number > 1:

for i in range (2, number):

if (number % i) == 0:

break

else:

print (number)

**Program 4:**

Write a Python program to generate Fibonacci series.

nterms = int(input("How many terms? "))

n1, n2 = 0, 1

count = 0

if nterms <= 0:

print("Please enter a positive integer")

elif nterms == 1:

print("Fibonacci sequence upto",nterms,":")

print(n1)

else:

print("Fibonacci sequence:")

while count < nterms:

print(n1)

nth = n1 + n2

n1 = n2

n2 = nth

count += 1