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

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

# define a flag variable

flag = False

# prime numbers are greater than 1

if num > 1:

# check for factors

for i in range(2, num):

if (num % i) == 0:

# if factor is found, set flag to True

flag = True

# break out of loop

break

# check if flag is True

if flag:

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

else:

print(num, "is a prime number")

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

m=int(input("enter the starting number"))

n=int(input("enter the ending number"))

while(m < n):

if m % 2 != 0:

print(m, end = " ")

m += 1

**3.Write a program to display prime numbers series up to given number**

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

b=int(input("enter the ending number"))

# define a flag variable

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

# all prime numbers are greater than 1

if num > 1:

for i in range(2, num):

if (num % i) == 0:

break

else:

print(num)

**4. Write a program to generate Fibonacci series**

num=int(input("enter the num="))

a=0;

b=1;

for i in range(1,num):

print(a)

result=a+b

a=b

b=result;