

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("{} ".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
```