Name : **VASAGAN B**

College : **DR. MAHALINGAM COLLEGE OF ENGINEERING AND TECHNOLOGY**

Batch-Num : **B8-2A4E**

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

Code

```python
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")
```

Output

```
Enter any number: 6
6 is not a prime number
```

```
Enter any number: 7
7 is a prime number
```

Program 2: Write a program to generate odd numbers from m to n using while loop

Code

```
maximum = int(input("Enter N Value : "))

for number in range(1, maximum + 1):
    if(number % 2 != 0):
        print("{0}".format(number))
```

Output

```
Enter N Value : 10
1
3
5
7
9
```

Program 3: Write a Python program to display prime number series up to given number.

Code

```
min = int(input("Enter the Start Value : "))
max = int(input("Enter the End Value : "))

for n in range(min,max + 1):
   if n > 1:
      for i in range(2,n):
         if (n % i) == 0:
            break
      else:
         print(n)
```

Output

```
Enter the Start Value : 1
Enter the End Value : 10
2
3
5
7
```

Program 4: Write a Python program to generate Fibonacci series.

Code

```
n = int(input("Enter the value of 'n': "))
num_1 = 0
num_2 = 1
sum = 0
count = 1
print("Fibonacci Series: ", end = " ")
while(count <= n):
  print(sum, end = " ")
  count += 1
  num_1 = num_2
  num_2 = sum
  sum = num_1 + num_2
```

Output

```
Enter the value of 'n': 10
Fibonacci Series:  0 1 1 2 3 5 8 13 21 34
```