CAD ASSIGNMENT 1

Program 1.Write a python program to test the given is prime or not?

```python
#user entered number is prime or not
Num= int(input("Enter The Number:"))
if Num > 1:
   for i in range(2,int(Num/2)+1):
     if (Num % i == 0):
        print(Num,"The Entered number is not a Prime Number")
        break
   else:
     print(Num,"The Entered number is a Prime number")
else:
   print(Num,"The number is not a Prime number")
```

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

```python
# Python Program to Print Odd Numbers using while loop

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

 Number = 1

 while Number <= Maximum:
 if(Number % 2 != 0):
 print("{0}".format(Number))
 Number = Number + 1
```

Program 3.Write a python program to display prime number series upto given number.

#program to print prime number in a user range

```python
r=int(input("Enter upper limit: "))
for a in range(2,r+1):
    k=0
    for i in range(2,a//2+1):
        if(a%i==0):
            k=k+1
    if(k<=0):
        print(a)
```

Program 4. Write a python program to generate fibonacci series.

#program to print fibonacci series

```python
n = int(input('Enter the number for fibo series:'))

    def Fibonacci(n):
    f0, f1 = 0, 1
    for _ in range(n):
        yield f0
        f0, f1 = f1, f0+f1

fibo = list(Fibonacci(n))
print(fibo)
```