CAD ASSIGNMENT 1

Program 1.write a python program to test the given is prine or not ?

```python
# Program to check if a number is prime or not

num = int(input("Enter a number :"))

if num > 1:

    for i in range(2, num):
        if (num % i) == 0:

            print(num, "is not a prime number")
            break;
        else:
            print(num, "is a prime number")
            break;
```

Program 2.write a python program to generate odd numbers from mto n using while loop ?

```python
maximum = int(input(" Enter the  Value : "))
```

```python
number = int(input("Enter a Value: "))

c=max(number,maximum)

print(c)

d=min(number,maximum)

print(d)

print("the odd number between",c,"and",d,"is")


while d<=c:

    if(d % 2 != 0):

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

    d += 1
```

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

```python
# Python program to display all the prime numbers within an interval


lower = int(input("Enter a value:"))

upper = int(input("Enter a value:"))

c=max(upper,lower)

print(c)

d=min(upper,lower)

print(d)


print("Prime numbers between",d, "and",c, "are:")
```

```python
for num in range(d, c + 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)
```

Program 4.write a python program to generate fibonacci series?

```python
num=int(input("Enter a value:"))

f1=0

f2=1

print("fibonacci series:",f1,f2, end=" ")

for i in range(2,num):

  f3=f1+f2

  f1=f2

  f2=f3

  print(f3,end=" ")

print()
```