Assignment-1

Project Domain	Cloud Application Development
Project Title	News Tracker Application
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Questions:

- Program 1: Write a program to test a given number is prime or not.
- Program 2: Write a program to generate odd numbers from m to n using while loop
- Program 3: Write a python program to display prime number series up to given number
- Program 4: Write a python program to generate Fibonacci series

Answers:

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

In [2]:
```
#Given number is prime number
or not def prime(num):    for i in
range(2,num):        if num%i==0:
          return False    return
True number=int(input("Enter a
number:")) if(prime(number)):
   print("\nThe given number ",number," is prime.")
else:
   print("\nThe given number ",number," is not a prime.")
```

Enter a number:11

The given number 11 is prime.

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

In [1]:
```
#Generate odd numbers between given two
numbers m=int(input("Enter the starting
number:")) n=int(input("Enter the ending
number:")) print("Odd numbers between ",m,"
and ",n," are:") while(m<n):     if(m%2==0):
m=m-1     m=m+2     if(m<n):
      print(m)
```

Enter the starting number:10

Enter the ending number:25

Odd numbers between 10 and 25 are:

11

13

15

17

19

21

23

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

In [15]:
```
#Display prime number series up to given
number def prime(num):     for i in
range(2,num):         if num%i==0:
            return False     return True number=int(input("Enter a number upto
which the series of prime numbers to be displ for i in range(2,number+1):
    if(prime(i)):
        print("\nThe given number ",i," is prime.")
else:
        print("\nThe given number ",i," is not a prime.")
```

```
Enter a number upto which the series of prime numbers to be
displayed:10

The given number  2  is prime.

The given number  3  is prime.

The given number  4  is not a prime.

The given number  5  is prime.

The given number  6  is not a prime.

The given number  7  is prime.

The given number  8  is not a prime.

The given number  9  is not a prime.

The given number  10  is not a prime.
```

Program 4: Write a python program to generate Fibonacci series

In [2]:

```
#Generate fibonacci
series n1=0 n2=1 n3=1
number=int(input("Enter the length of fibonacci
series:")) print(n1) print(n2) print(n3) for i in
range(number-3):
    n1=n2
n2=n3
n3=n1+n2
print(n3)
```

```
Enter the length of fibonacci series:15
0
1
1
2
3
5
8
13
21
34
55
89
144
233
377
```