

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 [7]:

```
#Program to test a given number is prime or not
def Primecheck(number):
    if(number>1):
        for j in range(2,int(number/2)+1):
            if((number%j)==0):
                return True
                break
            else:
                return False
    else:
        print(number,"is not a prime number")

number=int(input("Enter the Number : "))
if(Primecheck(number)):
    print(number,"is not a prime number")
else:
    print(number,"is a prime number")
```

Enter the Number : 6
6 is not a prime number

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

In [1]:



```
m=int(input("Enter the starting Number m : "))
n=int(input("Enter the starting Number n : "))
print("Odd numbers between ",m,"and",n," are: ")
while(m<n):
    if(m%2==0):
        m-=1
    m+=2
    if(m<n):
        print(m)
```

```
Enter the starting Number m : 1
Enter the starting Number n : 7
Odd numbers between 1 and 7 are:
3
5
```

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

In [2]:



```
def Primecheck(number):
    for i in range(2,number):
        if(number%i==0):
            return False
    return True
number=int(input("Enter the number upto which the series of prime numbers to be printed"))
for i in range(2,number+1):
    if(Primecheck(i)):
        print("The given number ",i," is a Prime number.")
    else:
        print("The given number ",i," is not a Prime number.")
```

```
Enter the number upto which the series of prime numbers to be printed7
The given number 2 is a Prime number.
The given number 3 is a Prime number.
The given number 4 is not a Prime number.
The given number 5 is a Prime number.
The given number 6 is not a Prime number.
The given number 7 is a Prime number.
```

Program 4: Write a python program to generate Fibonacci series

In [1]:



```
#Generate fibonacci series

num1=0
num2=1
num3=1

number=int(input("Enter the Length of the fibonacci series: "))
print(num1)
print(num2)
print(num3)
for i in range(number-3):
    num1=num2
    num2=num3
    num3=num1+num2
    print(num3)
```

Enter the Length of the fibonacci series: 15

0
1
1
2
3
5
8
13
21
34
55
89
144
233
377