

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.

```
#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

```
#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

```
#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 displayed: "))
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

```
#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