***Assignment-4***

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| **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.

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| *#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

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| *#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

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| *#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

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| *#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