## Assignment -4

# **Python Programming**

Assignment Date	23 September 2022	
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Maximum Marks	2 Marks	

### Question-1:

Write a python program to test a given 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")
print(i,"times",num//i,"is",num)
break
else:
print(num,"is a prime number")
else:
print(num,"is not a prime number")
```

```
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")
            print(i, "times", num//i, "is", num)
            break
else:
        print(num, "is a prime number")

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

```
>>>
Enter a number: 7
(7, 'is a prime number')
>>> |
```

## Question-2:

write a program to generate odd numbers from m to n using while loop.

```
Enter the start of range:1
Enter the end of range:10
1
3
5
7
9
>>>
```

### Question-3:

Write a python program to display prime number series upto a given number.

```
upto = int(input("Find prime numbers upto : "))
for num in range(2, upto + 1):
  i = 2
  for i in range(2, num):
    if(num % i == 0):
      i = num
      break;
  if(i != num):
    print(num)
upto = int(input("Find prime numbers upto : "))
for num in range(2, upto + 1):
    i = 2
    for i in range(2, num):
         if (num % i == 0):
             i = num
             break;
    if(i != num):
         print (num)
Find prime numbers upto : 10
>>>
```

#### Question-4:

# Write a python program to generate Fibonacci series

```
nterms = int(input("How many terms? "))
n1, n2 = 0, 1
count = 0
if nterms <= 0:
 print("Please enter a positive integer")
elif nterms == 1:
 print("Fibonacci sequence upto",nterms,":")
 print(n1)
else:
 print("Fibonacci sequence:")
 while count < nterms:
   print(n1)
   nth = n1 + n2
   n1 = n2
   n2 = nth
   count += 1
nterms = int(input("How many terms? "))
n1, n2 = 0, 1
count = 0
if nterms <= 0:
   print("Please enter a positive integer")
elif nterms == 1:
   print("Fibonacci sequence upto",nterms,":")
   print("Fibonacci sequence:")
   while count < nterms:
      print(nl)
      nth = nl + n2
      n1 = n2
       n2 = nth
       count += 1
How many terms? 5
Fibonacci sequence:
1
1
2
3
>>>
```