# Assignments

# Python assignment - 4

Date	23 September 2022
Student Name	Ajith kumar P
Project Name	Project -Personal Expense Tracker Application
Maximum Marks	2 Marks

## **Prime Number**

## **Question:**

Write a program to test a given number is prime or not

```
num = int(input("Enter a number :"))
flag = False
if num > 1:
    for i in range(2, num):
        if (num % i) == 0:
            flag = True
            Break
if flag:
    print(num, "is not a prime number")
    else:
    print(num, "is a prime number")
```

```
PS D:\photoshop\products\COCM> & 'C:
hon.python-2022.14.0\pythonFiles\lib\
Enter a number :23445
23445 is not a prime number
PS D:\photoshop\products\COCM>
```

## Odd Numbers from m to n

### **Question:**

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

```
start, end = 4, 19
for num in range(start, end + 1):
    if num % 2 != 0:
        print(num, end = " ")
```

```
start, end = 4, 19
for num in range(start, end + 1):
    if num % 2 != 0:
        print(num, end = " ")

PS D:\photoshop\products\COCM>
hon.python-2022.14.0\pythonFiles
5 7 9 11 13 15 17 19
PS D:\photoshop\products\COCM>
```

## **Prime Number Series**

## **Question:**

Write a program to display prime number series upto given number

```
def isPrime(n):
if(n==1 or n==0):
    return False
for i in range(2,n):
    if(n%i==0):
    return False
return True
```

```
# Driver code
N = int(input("Enter a number : "))
for if(isPrime(i)):
    print(i,end=" ")
```

```
D: > photoshop > products > COCM >  Untitled-1.py >  i

def isPrime(n):

if(n==1 or n==0):

return False

for i in range(2,n):

if(n%i==0):

return False

return True

N = int(input("Enter a number: "))

for i in range(N+1):

if(isPrime(i)):

print(i,end=" ")
```

```
Enter a number : 100
2  3  5  7  11  13  17  19  23  29  31  37  41  43  47  53  59  61  67  71  73  79  83  89  97
PS D:\photoshop\products\COCM>
```

## Fibonacci Sequence from 0 to n

## **Question:**

Write a program to 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</pre>
```

```
nterms = int(input("How many terms? "))
                                                How many terms? 10
n1, n2 = 0, 1
                                                Fibonacci sequence:
count = 0
                                                0
if nterms <= 0:
                                                1
    print("Please enter a positive integer")
elif nterms == 1:
   print("Fibonacci sequence upto",nterms,":")
                                                2
3
5
8
    print(n1)
else:
    print("Fibonacci sequence:")
    while count < nterms:
       print(n1)
       nth = n1 + n2
                                                13
       n1 = n2
        n2 = nth
                                                21
        count += 1
```