**Assignment -1**

Python Programming

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| Assignment Date | 19 September 2022 |
| Student Name | S.Mamallan |
| Student Roll Number | 210519205029 |
| Maximum Marks | 2 Marks |

**1.write a program to find prime number or not**

# Number to be checked for prime

n = 5

# Check if the number is greater than 1

if n > 1:

for i in range(2, int(n/2)+1):

if (n % i) == 0:

print(num, "is not a prime number")

break

else:

print(n, "is a prime number")

# If the number is less than 1, its also not a prime number.

else:

print(n, "is not a prime number")

**2.write a program to generate m to n numbers using while loop**

n = int(input("Please Enter any Number: "))

m=int(input(“please Enter any Number:”))

print("Natural Numbers from 1 to {0} are".format(num))

while (i<= num):

print (i, end = ' ')

i = i + 1

**3.write a program to display prime numbers series upto given number**

min = int(input("Enter the min : "))

max = int(input("Enter the max : "))

for n in range(min,max + 1):

if n > 1:

for i in range(2,n):

if (n % i) == 0:

break

else:

print(n)

**4.write a python program to generate Fibonacci series.**

nterms = int(input("How many terms? "))

# first two terms

n1, n2 = 0, 1

count = 0

# check if the number of terms is valid

if nterms<= 0:

print("Please enter a positive integer")

# if there is only one term, return n1

elifnterms == 1:

print("Fibonacci sequence upto",nterms,":")

print(n1)

# generatefibonacci sequence

else:

print("Fibonacci sequence:")

while count <nterms:

print(n1)

nth = n1 + n2

# update values

n1 = n2

n2 = nth

count += 1