**Assignment -1**

Python Programming

|  |  |
| --- | --- |
| Assignment Date | 19 September 2022 |
| Student Name | S R Samyuktha |
| Student Roll Number | 820419205050 |
| 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 &gt; 1:

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

if (n % i) == 0:

print(num, &quot;is not a prime number&quot;)

break

else:

print(n, &quot;is a prime number&quot;)

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

else:

print(n, &quot;is not a prime number&quot;)

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

n = int(input(&quot;Please Enter any Number: &quot;))

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

print(&quot;Natural Numbers from 1 to {0} are&quot;.format(num))

while (i&lt;= num):

print (i, end = &#39; &#39;)

i = i + 1

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

min = int(input(&quot;Enter the min : &quot;))

max = int(input(&quot;Enter the max : &quot;))

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

if n &gt; 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(&quot;How many terms? &quot;))

# first two terms

n1, n2 = 0, 1

count = 0

# check if the number of terms is valid

if nterms&lt;= 0:

print(&quot;Please enter a positive integer&quot;)

# if there is only one term, return n1

elifnterms == 1:

print(&quot;Fibonacci sequence upto&quot;,nterms,&quot;:&quot;)

print(n1)

# generatefibonacci sequence

else:

print(&quot;Fibonacci sequence:&quot;)

while count &lt;nterms:

print(n1)

nth = n1 + n2

# update values

n1 = n2

n2 = nth

count += 1