Department of Computer Science and Engineering

SUBJECT PROJECT

of

IT3008 - Programming with Python

is submitted to

Mr. Vishvajit Bakrola

Assistant Professor



Asha M. Tarsadia Institute of Computer Science and Technology

Uka Tarsadia University, Maliba Campus Bardoli, Gujarat

Semester - 2

(Summer 2022)

	Question 1
user for the input generate prime n	number generator function primeNator(). Ask the t of the largest number, up to which user wants to numbers. Design program is such a way that gives me for generation of prime numbers.

5/15/22, 11:40 PM question1.py

```
1 # B.Tech Computer Science and Engineering
 2 # Saurabh Yadav
 3 # 202103103510362
4
 5
 6 # importing time module
7 import time
9 def primeNator(range_number):
       init_time = time.time()
10
11
       prime_lst = []
       for num in range(2,range number+1):
12
           if num > 1:
13
               for i in range(2,num):
14
15
                   if (num%i) == 0:
                       break
16
17
               else:
                   prime_lst.append(num)
18
19
       final_time = time.time()
       return (final_time - init_time),prime_lst
20
21
22 while True:
23
       try:
24
           try:
25
               range_number = int(input("Enter the number : "))
               break
26
27
           except Exception:
28
               print("Please enter number only.")
       except KeyboardInterrupt:
29
           print("Enter the number and then enter.")
30
31
32 prog_execution_time,prime_numbers = primeNator(range_number)
33 print(f"The program took {prog execution time} seconds to generate prime numbers from
  0 to {range number}")
```

