

Programming Activity

A prime number (or a prime) is a natural number *greater than 1* that has no positive divisors other than 1 and itself.

For example, 5 is prime (divisible by 1 and 5), but 6 is not prime (divisible by 1, 2, 3, and 6).

Write a program to display a list of all the prime numbers from 1 through 100.

Check the sample output below (**Notice** that 1 is **not** a prime, so basically we are starting from 2).

Create a program named **primeNumbersYourLastName.py** that contains **the following function** and the **main function** that displays the list of all prime numbers between 1-100 if the number is prime.

The **isPrime function** is defined as follows:

isPrime function returns whether a number is prime, use the following function header
def isPrime (num)

(This program **contains** a **main function** and one **user-defined function**, check the function header above). If you got an infinite loop, press **CTRL + C** to stop the execution.

Sample Output

```
The prime numbers from 1 through 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
There are 25 prime numbers.
```

Include header comments formatted exactly as shown below. Be sure to include the Honor Code statement. Your electronic submission of the program file will represent your endorsement of the Honor Code Statement. Be sure to comment your code.

```
# Course: CSCI 256, Section 1
# Student Name: Jane Doe
# Student ID: 12345678
# Program 9
# Due Date:

# In keeping with the Honor Code of UM, I have neither given nor
# received assistance from anyone other than the TA or the instructor.

# Program Description:
```

Notice: You need to **submit your program** in Blackboard. Click on **Program 9** link in Bb, click **Browse My Computer**, attach the program, and click **Submit**.