**CODING**

Write a program to find the first 100 Prime numbers

**import** java.util.Scanner;

**public** **class** PrimeNumbers {

**public** **static** **boolean** isPrime(**int** num) {

**for** (**int** i = 2; i <= num / 2; i++) {

**if** (num % i == 0)

**return** **false**;

}

**return** **true**;

}

**public** **static** **void** main(String[] args) {

**int** num;

**int** count = 0;

**int** startNumber = 1;

Scanner sc = **new** Scanner(System.***in***);

System.***out***.print("Enter a number: ");

num = sc.nextInt();

System.***out***.print("First " + num + " prime numbers are:\n");

**while** (count < num) {

startNumber++;

**if** (PrimeNumbers.*isPrime*(startNumber)) {

System.***out***.println(startNumber);

count++;

}

}

}

}

Now write all possible test cases to test your program. (Manual test cases: covering both positive and negative scenarios)

Test Cases:

* Test for int input where num > count for e.g. num = 1 or 100. For this positive test scenario the code prints first 100 prime numbers successfully.
* Test input for boundaries for values such as num = count for e.g. num = 0 and largest acceptable number for e.g. num = 11234567890. This code does not handle these values and returns no output for it.
* Test input for num < count for e.g. num = -1. The code returns no input since count has been initialized from 0.
* Testing the input for different data types. For e.g. num = 9.45 or three or “2” or any special character. This code only accepts integer values as input and does not return any output for float, string and other data types.