Graded Lab 1

CSD 207 Shiv Nadar University

Professor Sulabh Bansal

Submitted By:

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```
/*
Q1. Prime number generator
Author: Rohan Verma (hello@rohanverma.net)
```

```
rohan@rohan-K53SV: ~/projects/monsoon/java/course/lab/gr1
rohan@rohan-K53SV:~/projects/monsoon/java/course/lab/gr1$ javac one.java
rohan@rohan-K53SV:~/projects/monsoon/java/course/lab/gr1$ java one
100
Primes between 1 and 100:
11
13
17
19
23
29
31
37
41
43
47
53
59
61
67
71
73
79
83
89
97
rohan@rohan-K53SV:~/projects/monsoon/java/course/lab/gr1$
```

```
import java.util.Scanner;

public class one {
    public static int isPrime(int x){
        for(int i = 2; i * i <= x; i++){
            if(x % i == 0) return 0;
}</pre>
```

```
public static void main( String [] args )
{
    int num;
    Scanner s = new Scanner(System.in);
    num = s.nextInt();
    System.out.println("Primes between 1 and " + num + ": ");
    for(int i = 2; i <= num; i++){
        if(isPrime(i) == 1){
            System.out.println(i);
        }
    }
}</pre>
```

}

```
/*
```

Q2. Pyriamid

Author: Rohan Verma (hello@rohanverma.net)

```
x - □ rohan@rohan-K53SV:~/projects/monsoon/java/course/lab/gr1$ javac two.java
rohan@rohan-K53SV:~/projects/monsoon/java/course/lab/gr1$ javac two.java
rohan@rohan-K53SV:~/projects/monsoon/java/course/lab/gr1$ java two

1
21
321
4321
rohan@rohan-K53SV:~/projects/monsoon/java/course/lab/gr1$ java two

6
1
21
321
4321
54321
rohan@rohan-K53SV:~/projects/monsoon/java/course/lab/gr1$ java two

6
1
21
321
4321
54321
rohan@rohan-K53SV:~/projects/monsoon/java/course/lab/gr1$
```

}

```
Author: Rohan Verma (hello@rohanverma.net)
 x - a rohan@rohan-K53SV: ~/projects/monsoon/java/course/lab/gr1
rohan@rohan-K53SV:~/projects/monsoon/java/course/lab/gr1$ javac three.java
rohan@rohan-K53SV:~/projects/monsoon/java/course/lab/gr1$ java three
Leap years between 1901 to 2000
1904 1908 1912 1916 1920 1924 1928 1932 1936 1940 1944 1948
1952 1956 1960 1964 1968 1972 1976 1980 1984 1988 1992 1996
rohan@rohan-K53SV:~/projects/monsoon/java/course/lab/gr1$
*/
import java.util.Scanner;
public class three {
        public static int isPrime(int x){
                for(int i = 2; i * i <= x; i++){
                        if(x \% i == 0) return 0;
                return 1;
        }
        public static void main( String [] args )
                int BEGIN = 1901, END = 2000, printed = 0;
                Scanner s = new Scanner(System.in);
                System.out.println("Leap years between 1901 to 2000 ");
                for(int i = BEGIN; i <= END; i++)</pre>
                        if ( i\%400 == 0)
                        {
                                 System.out.print(i + " ");
                                 printed++;
                        else if ( i%100 == 0)
                        else if ( i%4 == 0 )
                                 System.out.print(i + " ");
                                 printed++;
                        }
                        if(printed%12== 0 && printed != 0) {
                                 System.out.println();
                                 printed = 0;
                        }
                }
                System.out.println();
        }
```