Object-Oriented Programming (OOP) Lab Report – 01

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Section: E

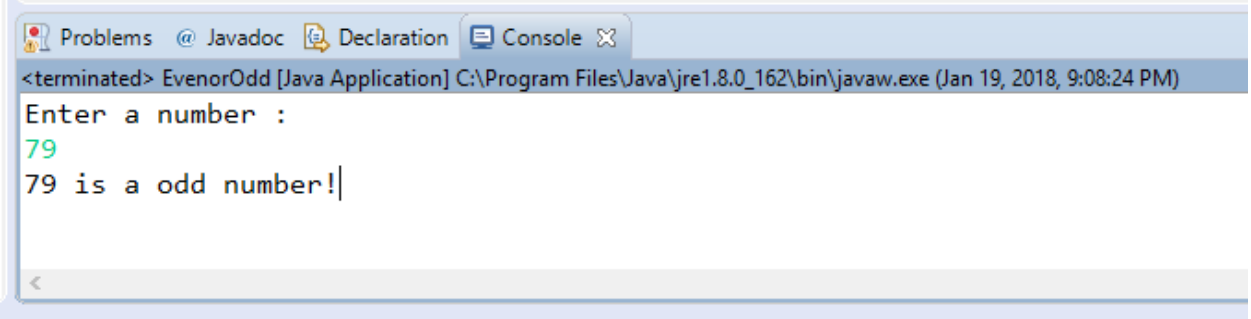
Course Code: CSE214

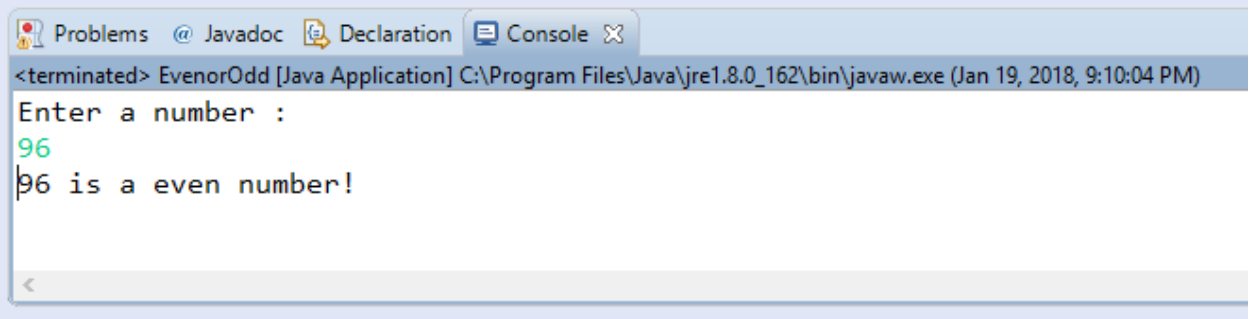
Problem 1: Even or Odd.

Code:

```
package labreportone;

import java.util.Scanner;

public class EvenorOdd {

	public static void main(String[] args) {

		Scanner input = new Scanner(System.in);
		System.out.println("Enter a number : ");
		int n = input.nextInt();
		if(n % 2 == 0) {
			System.out.println(n + " is a even number!");
		}

		else {
			System.out.println(n + " is a odd number!");
		}

	}

}
```

Output:



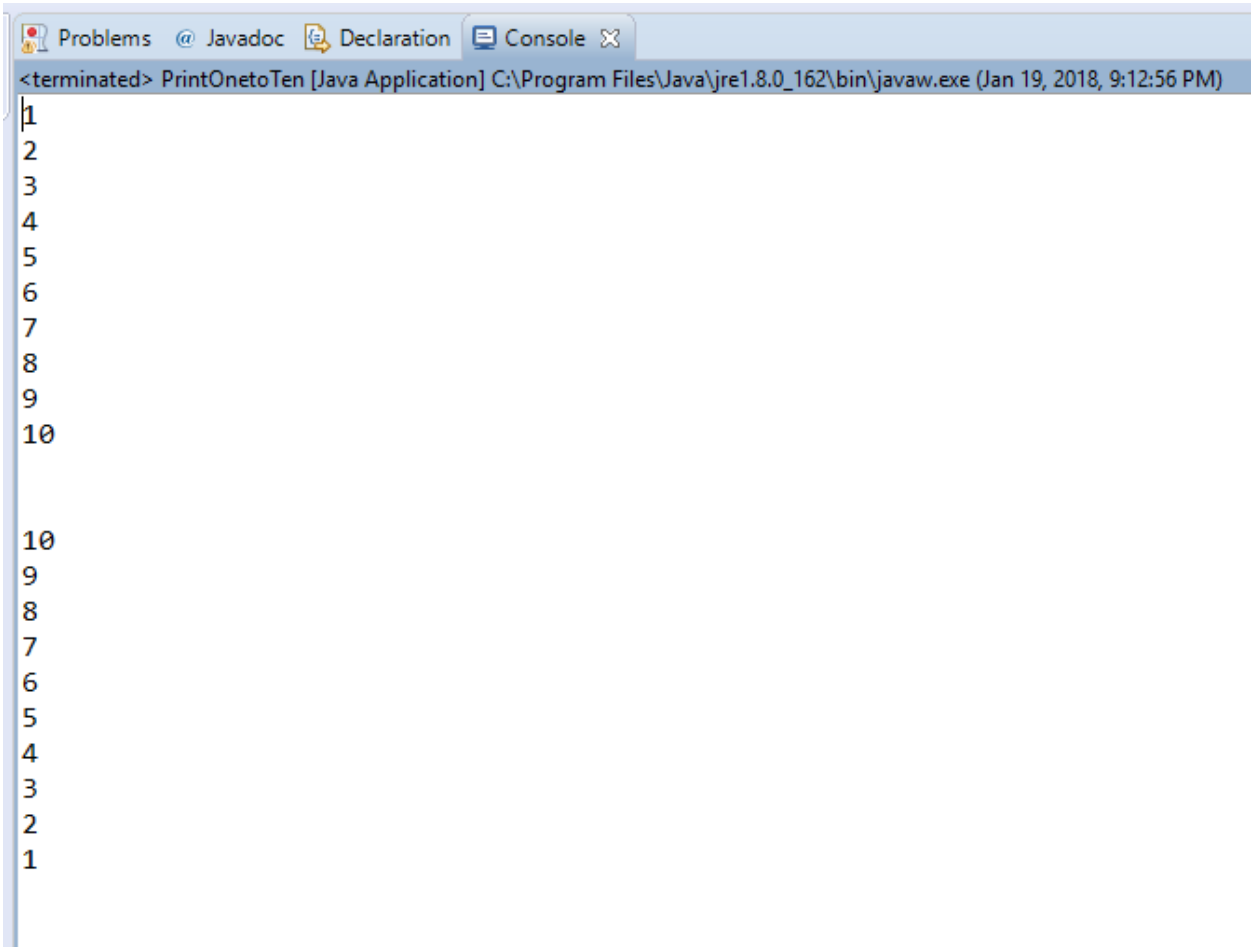


Problem 2: Print 1 to 10 using for loop.

Code:

```
package labreportone;

public class PrintOnetoTen {

	public static void main(String[] args) {

		for(int i = 1; i <= 10; i++) {
			System.out.println(i);
		}

			System.out.println("\n");

		for(int j = 10; j >= 1; j--) {
			System.out.println(j);
		}

	}

}
```

Output:



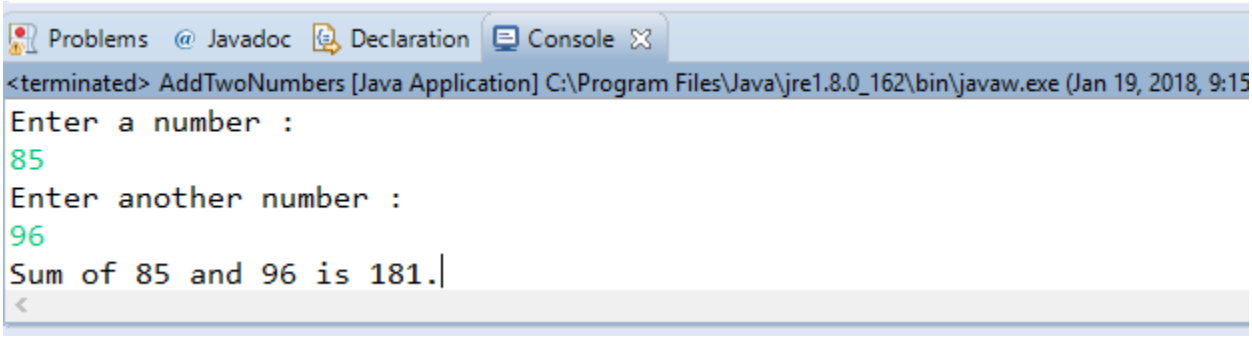
Problem 3: Input two numbers and print sum.

Code:

```
package labreportone;


import java.util.Scanner;

public class AddTwoNumbers {

	public static void main(String args[]) {

		Scanner input = new Scanner(System.in);
		System.out.println("Enter a number : ");
```

```
            int x = input.nextInt();
            System.out.println("Enter another number : ");
            int y = input.nextInt();
            int sum = x + y;
            System.out.println("Sum of " + x + " and " + y + " is " +
sum + ".");

      }

}
```

Output:



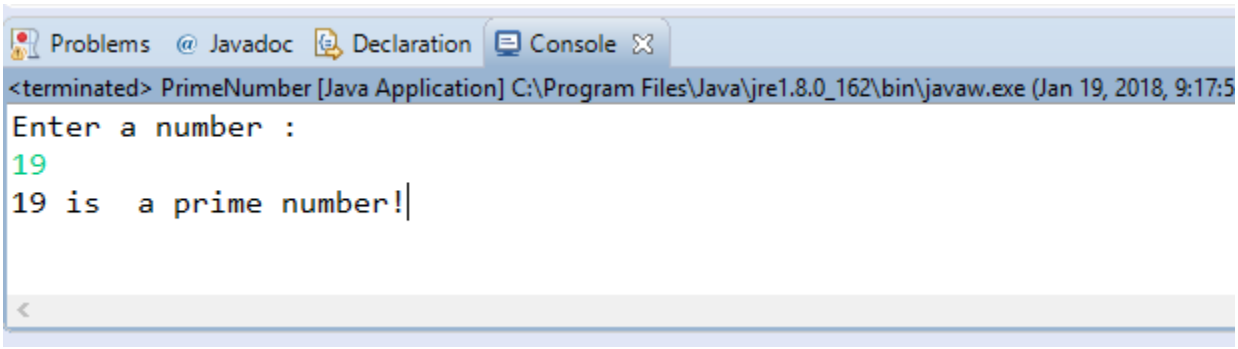
Problem 4: Prime Number.

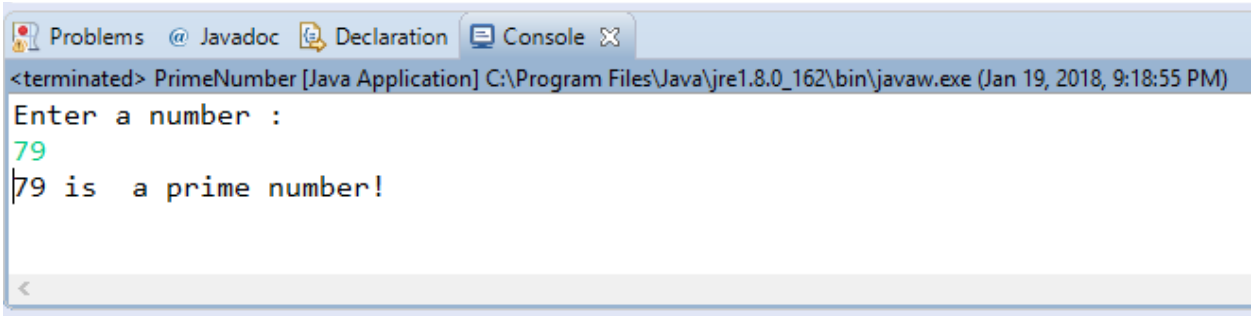
Code:

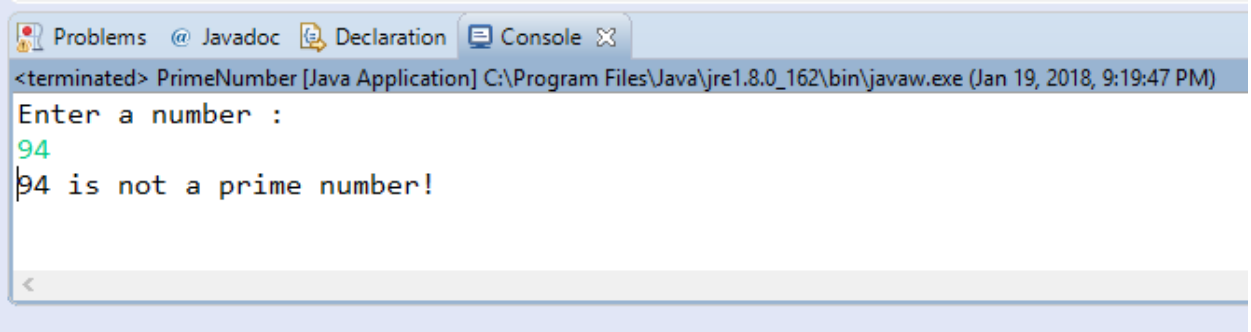
```
package labreportone;

import java.util.Scanner;

public class PrimeNumber {

      public static void main(String[] args) {
            Scanner input = new Scanner(System.in);
            System.out.println("Enter a number : ");
            int n = input.nextInt();
            int count = 0;
            for(int i = 2; i <= (n / 2); i++) {
                  if(n % i == 0) {
                        count = 0;
                        break;
                  }
```

```
                else {
                        count = 1;
                }
        }

        if(count != 0) {
                System.out.println(n + " is  a prime number!");
        }
        else if(n == 1) {
                System.out.println(n + " is a prime number!");
        }
        else{
                System.out.println(n + " is not a prime number!");
        }

    }

}
```

Output:





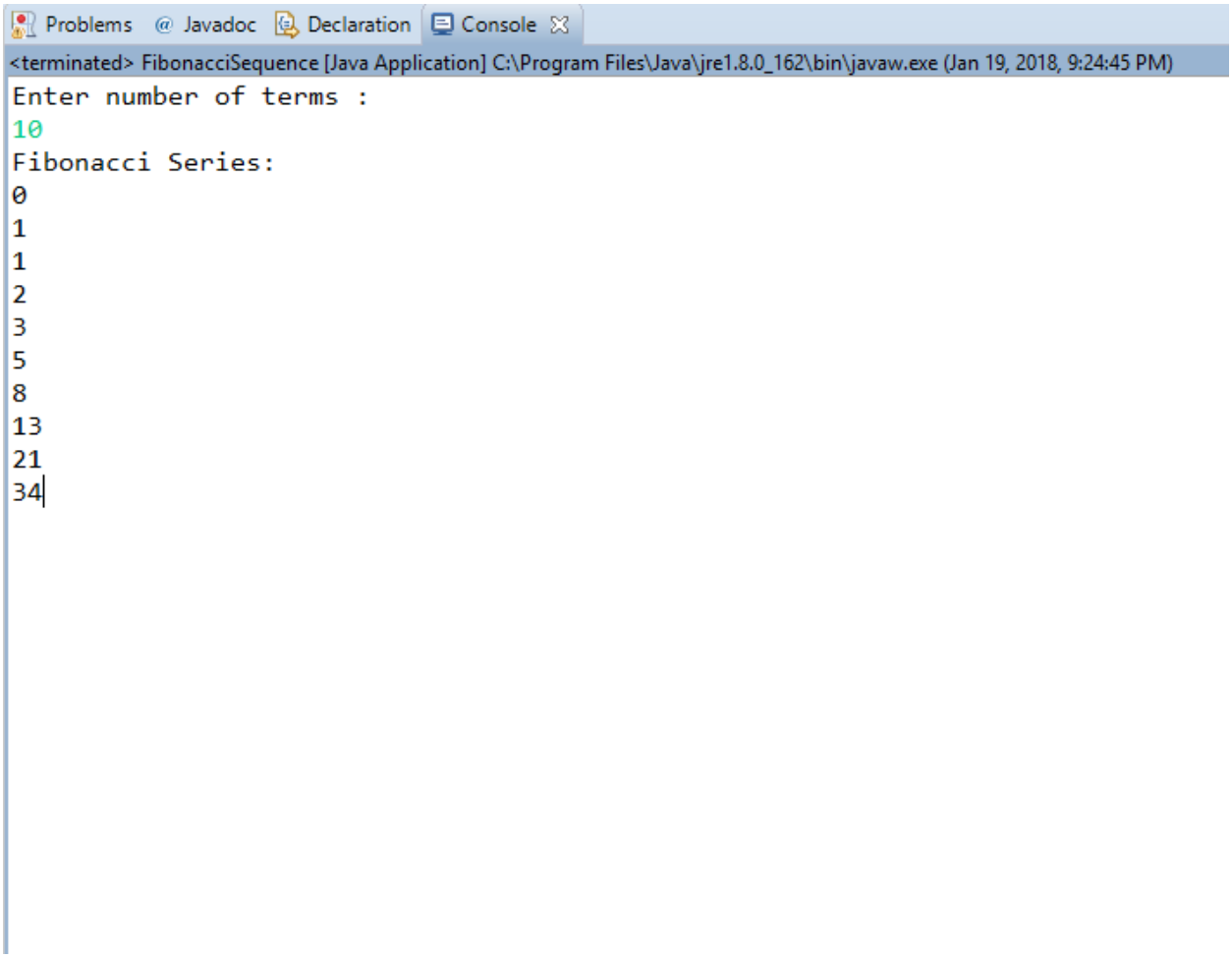


Problem 5: Fibonacci Series.

Code:

```
package labreportone;

import java.util.Scanner;

public class FibonacciSequence {

	public static void main(String[] args) {
		Scanner input = new Scanner(System.in);
		System.out.println("Enter number of terms : ");
		int n = input.nextInt();
		int x1 = 0, x2 = 1, y;
		System.out.println("Fibonacci Series: ");
		for(int i = 0; i < n; i++) {
			System.out.println(x1);
			y = x1 + x2;
			x1 = x2;
			x2 = y;
		}

	}

}
```

Output:


Problems
Javadoc
Declaration
Console
<terminated> FibonacciSequence [Java Application] C:\Program Files\Java\jre1.8.0_162\bin\javaw.exe (Jan 19, 2018, 9:24:45 PM)
Enter number of terms :
10
Fibonacci Series:
0
1
1
2
3
5
8
13
21
34