

## Punjab University College of Information Technology

Date: 13-10-17

Course: Web Engineering

Lab #: 1

Instructor: Razi Ahmad

Total Marks: 50

1. Write a hello world program?

2. Write a program called SumAndAverage to produce the sum of 1, 2, 3, ..., to an upper bound (taken from user). Also compute and display the average. The output shall look like:

Enter the upper bound: 10

The sum is 45

The average is 4.5

Hint to take input from User:

```
Scanner input = new Scanner(System.in);
```

```
int num = input.nextInt();
```

3. Write a Java program to create and display the following grid of numbers, using for statements:

```
1 2 3 4 5
2 3 4 5 6
3 4 5 6 7
4 5 6 7 8
5 6 7 8 9
```

4. Write a program in java that saves an integral vale in an Integer variable and Display whether it is positive or negative.

5. Write a Java program that prompts for integers and displays them in binary.

Sample output:

```
Do you want to start (Y/N): y
```

```
Enter an integer and I will convert it to binary code: 16
```

```
You entered 16.
```

```
16 in binary is 10000.
```

```
Do you want to continue (Y/N): y
```

```
Enter an integer and I will convert it to binary code: 123
```

```
You entered 123.
```

```
123 in binary is 1111011.
```

```
Do you want to continue (Y/N): y
```

```
Enter an integer and I will convert it to binary code: 359
You entered 359.
359 in binary is 101100111.

Do you want to continue(Y/N): y
Enter an integer and I will convert it to binary code: 1024
You entered 1024.
1024 in binary is 10000000000.

Do you want to continue(Y/N): n
```

### Instructions and Submission Guidelines

- Play it safe, you should know that programming assignments are evaluated ELECTRONICALLY to detect plagiarism.**SO, DO NOT COPY! Anyone caught being indulged in the act of plagiarism may be awarded straight away an "F" grade in the course** (Work on this assignment individually).
- You're not allowed to use any IDE. Write your code in Notepad or Notepad++ and compile it through CMD.
- Read the complete task statement carefully before starting the implementation.
- You can discuss any problem you face while working on Assignment with TA's in case you need any help. Ping me in case you left with the problem unsolved.
- Your lab will be declined if you violate any of the submission guidelines.
- TA's email id for BSIT: bitf14a010@pucit.edu.pk
- TA's email for BSCS: bitf14a013@pucit.edu.pk

**Best of Luck**