**Department of Computer Science and Engineering**

**Amrita School of Engineering**

**Amrita Vishwa Vidyapeetham – Coimbatore**

Int. M.Sc Data Science V Sem

18CSC381 – Open Lab (Java)

*Lab Evaluation* – II

**Set 3**

**Each Program carries 5 marks**

**Evaluation Criteria – 3 marks for Logic + Explanation, 2 marks for Output**

1. Write a Java program to count the number of occurrences of any character on String.The String and the character to be removed from the string has to be accepted from the user. (For example,

Enter the Sample String: Java

Enter the Character to be counted: a

Output: a occurs 2 times in the given string. (Case sensitivity can be ignored)

2. Write a program that extracts the digits of a given number and prints the sum of even and odd values.

Input:

Enter the number = “25378”

Output:

Even number sum:10

Odd number sum:15

3. Write a Java program to implement a super class Worker to store the details like Name and Basic Pay (Float / Double), having member functions to initialise (using the constructor) and display the basic details. A class Wages is to be derived from the super (Worker) class where the Wages class is going to have data members hours(worked), rate(per hour) and wage (overall wage) of the worker. This class needs to have two more member functions to return the overtime(double data type) to calculate the overtime amount for the worker (hours \* rate).Use the constructor to set initial sample values for the data members and display the worker details, Salary and Overtime appropriately.