**Assignment 1**

1. Look at the class module2.SuperStudy.

**package module2;**

**public class SuperStudy**

**{**

**public void X()**

**{ System.out.println("I am in SuperStudy.X()"); }**

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

**{**

**SuperStudyChild ssc = new SuperStudyChild();**

**ssc.X();**

**}**

**}**

**class SuperStudyChild extends SuperStudy**

**{**

**public void X()**

**{**

**X();**

**System.out.println("I am in SuperStudyChild.X()");**

**}**

**}**

a. What is the problem?

b. How can we rectify the problem?

**Assignment 2**

1. Write a program to generate 9’s table.

2. Create an array of 10 integers and print only the even values.

3.Create an integer array of m rows and n columns (where m, n< 10) and print only the odd values.



4.You need to print integers till 20, which loop construct is the best for this?



5.Create 2 integer matrices of m rows and n column each and add these 2 matrices.

6.For the above problem add the relevant code to check valid inputs. Hint: To add matrices they must be of equal dimension.



**Assignment 3**

**Problem Statement 1**

You are given a list of student information: ID, FirstName, and CGPA. Your task is to rearrange them according to their CGPA in decreasing order. If two student have the same CGPA, then arrange them according to their first name in alphabetical order. If those two students also have the same first name, then order them according to their ID. No two students have the same ID.

class Student{

    private int id;

    private String fname;

    private double cgpa;

    public Student(int id, String fname, double cgpa) {

        super();

        this.id = id;

        this.fname = fname;

        this.cgpa = cgpa;

    }

    public int getId() {

        return id;

    }

    public String getFname() {

        return fname;

    }

    public double getCgpa() {

        return cgpa;

    }

}

**Input Format**

The first line of input contains an integer , representing the total number of students. The next  lines contains a list of student information in the following structure:

ID Name CGPA

**Output Format**

After rearranging the students according to the above rules, print the first name of each student on a separate line.

**Sample Input**

5

33 Rumpa 3.68

85 Ashis 3.85

56 Samiha 3.75

19 Samara 3.75

22 Fahim 3.76

**Sample Output**

Ashis

Fahim

Samara

Samiha

Rumpa

**Problem Statement 2**

Given a string,s , and two indices, start and end , print a substring consisting of all characters in the inclusive range from start to end -1 .

**Input Format**

The first line contains a single string denoting  s.  
The second line contains two space-separated integers denoting the respective values of  start and  end .

**Output Format**

Print the substring in the inclusive range from start to end -1 .

**Sample Input**

Helloworld

3 7

**Sample Output**

lowo