Problem 1: Take an integer n as input from the console. Then, you will take total n number of lines from the console as input. In each line, there will be two double values separated by space. Then, you have to divide the first double number by the second double number in each line and print the division result for each line. If you get division by zero exception for any division result, then print (‘Division by Zero Error’), otherwise print the division result. [5]

Sample Input:

5

4.0 2.0

12.0 4.0

3.0 0

4.0 0

2.0 2.0

Output:

2.0

3.0

Division by Zero Error

Division by Zero Error

1.0

Problem 2: Create a class player with the following attributes: [15]

**Player:**

int jersey\_number, double salary, int age, String name

Player () {Default Constructor ;}

Player (int jersey\_number, double salary, int age, String name, String Country) {Assign the variables ;}

Now you will read the information of the players from a text file. In the first line of the file, there will be a number n which will denote the total number of players. Then, you will read total n lines from the file, each line containing a player’s information. You will store each player’s information in a hash map where jersey\_number is the key and player class is the value. There will not be any two players with the same jersey\_number. Then, you will take a jersey\_number as input from the console and print the player information with that jersey\_number.

Sample text file:

3

10 100000 34 Messi

7 300000 33 Ronaldo

9 282827 30 Suarez

Input from Console:

Enter a player’s jersey number: 10

Output:

Player’s Name: Messi

Jersey Number: 10

Salary: 100000

Age: 34

Problem 3: Take a String as input from the console and print the substring that starts after the 1st occurrence of “apple” and ends before the 2nd occurrence of the substring “apple”. There the substring “apple” does not occur at least twice, then print ‘Not Applicable’. [Hints: Use string.indexOf (substring, starting\_index) function] [10]

Sample Input:

Haysvapplebangladeshappledfhb

Output:

Bangladesh

Sample Input:

Absiapplembappeappleghhshsapplechdk

Output:

mbappe

Sample Input:

Ansapplevfbifrv

Output:

Not Applicable