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 person with the following attributes: [15]

**Person:**

int NID, double salary, int age, String name

Person () {Default Constructor ;}

Person (int NID, double salary, int age, String name, String Country) {Assign the variables ;}

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

Sample text file:

3

1011 100000 34 Rahim

7234 300000 33 Karim

922 282827 30 Arab

Input from Console:

Enter a person’s NID: 1011

Output:

Person’s Name: Rahim

NID: 1011

Salary: 100000

Age: 34

Problem 3: Take two Strings as input from the console and print the substring of the first string that starts after the first occurrence of second string and ends before the last occurrence of second string in the first string. If there are less than two occurrence of second string in the first string, print ‘Not Applicable’. [Hints: Use string.indexOf (substring) and string.lastIndexOf(substring) function] [10]

Sample Input:

Haysvapplebangladeshappledfhb

apple

Output:

bangladesh

Sample Input:

Absiapplembappeappleghhshsapplechdk

apple

Output:

mbappeappleghhshs

Sample Input:

Ansssafbwqqlevddifrv

fb

Output:

Not Applicable