

Name: Ananya Ghosh

Registration No.: 20MIC0063

CSI2008 – Programming in Java

L53+L54

Challenging Task 1 – MCQ correction

Write a java program to correct the quiz answers and display the total marks of each student in the quiz.

Hint:

Suppose there are 10 questions in the quiz and there are five students then the answers are stored in a two dimensional array as follows

| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|---|
| 0 | A | B | A | C | C | D | E | E | A | D |
| 1 | D | B | A | B | C | A | E | E | A | D |
| 2 | E | D | D | A | C | B | E | E | A | D |
| 3 | C | B | A | E | D | C | E | E | A | D |
| 4 | A | B | D | C | C | D | E | E | A | D |
| 5 | B | B | E | C | C | D | E | E | A | D |

Store the keys of the questions in another array

| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| D | B | D | C | C | D | A | E | A | D |

CODE:

```
import java.util.Scanner;
```

```
public class Labdaone {
```

```
    public static void main(String[] args) {
```

```
        int numOfStudents, numOfQuestions;
```

```
        System.out.println("Enter the number of Students:");
```

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

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

```
        numOfStudents = inplnt.nextInt();
```

```
        System.out.println("Enter the number of Questions:");
```

```
        numOfQuestions = inplnt.nextInt();
```

```
        char student_answers[][] = new char[numOfStudents][numOfQuestions];
```

```
        char answerkey[] = new char[numOfQuestions];
```

```
        System.out.println("Enter the Answer Key: ");
```

```
        for(int i=0; i<numOfQuestions; i++)
```

```
        {
```

```
            answerkey[i] = inpText.next().charAt(0);
```

```
        }
```

```
        for(int i=0; i<numOfStudents; i++)
```

```

{
    if(i==0)
    {
        System.out.println("Enter the choices of the first student: ");
    }
    else
    {
        System.out.println("Enter the choices of the next student: ");
    }
    for(int j=0; j<numOfQuestions; j++)
    {
        student_answers[i][j] = inpText.next().charAt(0);
    }
}

```

```

int marks_arr[] = new int[numOfStudents];
for(int i=0; i<numOfStudents; i++)
{
    int count = 0;
    for(int j=0; j<numOfQuestions; j++)
    {
        if(student_answers[i][j]==answerkey[j])
        {
            count +=1;
        }
    }
}

```

```

        marks_arr[i] = count;

    }

    for(int i=0; i<numOfStudents; i++)
    {

        System.out.println("Marks scored by Student " + (i+1) + " are " +
marks_arr[i]);

    }

}

```

OUTPUT:

```

Labdaone.java 2 X
1  import java.util.Scanner;
2
3  public class Labdaone {
4
Run | Debug

PROBLEMS 12 OUTPUT DEBUG CONSOLE TERMINAL
PS C:\Users\anany\Desktop\VIT\semester 4\java> javac Labdaone.java
PS C:\Users\anany\Desktop\VIT\semester 4\java> java Labdaone
Enter the number of Students:
5
Enter the number of Questions:
10
Enter the Answer Key:
D B D C C D A E A D
Enter the choices of the first student:
A B D C A B E C D D
Enter the choices of the next student:
A B D C A B E C A C
Enter the choices of the next student:
D B D C C D E C D D
Enter the choices of the next student:
A B D C A D A E A D
Enter the choices of the next student:
D B D C C D A E A D
Marks scored by Student 1 are 4
Marks scored by Student 2 are 4
Marks scored by Student 3 are 7
Marks scored by Student 4 are 8
Marks scored by Student 5 are 10
PS C:\Users\anany\Desktop\VIT\semester 4\java>

```