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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 inpInt = new Scanner(System.in);
		Scanner inpText = new Scanner(System.in);
		numOfStudents = inpInt.nextInt();

		System.out.println("Enter the number of Questions:");
		numOfQuestions = inpInt.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: