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Lab 9 assignment, EE202 GA, 4th of April 2021 .

Question 1:

```
package avrg;
import java.util.Scanner;
public class Lab9_1 {
    /* Mansour Al Asais */
    * Ask the user how many questions are in the quiz. • Ask the user to
enter the
    * key (that is, the correct answers). There should be one answer for
each
    * question in the quiz, and each answer should be an integer. They can
be
    * entered on a single line, e.g., 34 7 13 100 81 3 9 10 321 12 might be
the key
    * for a 10-question quiz. You will need to store the key in an array. •
Ask the
    * user to enter the answers for the quiz to be graded. As for the key,
these
    * can be entered on a single line. Again there needs to be one for each
    * question. Note that these answers do not need to be stored; each
answer can
    * simply be compared to the key as it is entered. • When the user has
entered
    * all of the answers to be graded, print the number correct and the
percent
    * correct. When this works, add a loop so that the user can grade any
number of
    * quizzes with a single key. After the results have been printed for
each quiz,
    * ask "Grade another quiz? (y/n)."
```

```
    */

    public static void main(String args[]) {

        Scanner scan = new Scanner(System.in);

        boolean AnotherQuiz = true;
```



```
// Start
System.out.println(" Quiz grading ");
while(AnotherQuiz) {
    System.out.println("Enter the number of questions in the quiz: ");
    double Questions = 0f;
    try {
        Questions = scan.nextInt();
    } catch (Exception a) {System.out.println("An error ocured! Details: " +
a);}
    double IncorrectAns = 0f;
    double FullPoints = Questions;

    System.out.println("Enter the answer key: ");
    scan.nextLine();
    String[] ans = scan.nextLine().split(" ");
    int tempCorrect[] = new int[ans.length];
    int tempIncorrect[] = new int[ans.length];

    for(int x=0;x<ans.length;x++) {
        try {
            tempCorrect[x]=Integer.parseInt(ans[x]); //h4x
        }
        catch (Exception e) {
            System.out.println("Error: " + e);
        }
    }

    System.out.println("Enter the student answers: ");
    String[] StuAns = scan.nextLine().split(" ");
    for (int x=0;x<tempIncorrect.length;x++) { // Storage
        tempIncorrect[x]=Integer.parseInt(StuAns[x]);
    }

    for(int c=0;c<tempCorrect.length;c++) {
        if(tempCorrect[c]!=tempIncorrect[c]) {
            IncorrectAns++;
        }
    }
    double correctAns = (FullPoints - IncorrectAns);
    System.out.printf("%.2f for a grade of %.2f%%\n",correctAns,
((correctAns/FullPoints) * 100));
    System.out.println("Grade another quiz (y/n)?");
    String next = scan.nextLine();
    try {if(next.equalsIgnoreCase("n"))
{AnotherQuiz=false;break;}else{FullPoints=0;correctAns=0;IncorrectAns=0;}}
catch(Exception oops) {System.out.println("An error ocured! Details: "+
oops);}
```



```
}  
}  
}
```

Question 2:

```
package avrg;  
import java.util.Scanner;  
public class Lab9_2 {  
    // Mansour Al Asais  
    public static void main(String[] args) {  
        Scanner scan = new Scanner(System.in);  
        int Sales = 0;  
        int totalSales = 0;  
        int numOfSales = 0;  
        int largestByWho=0;  
        int smallByWhi =Integer.MAX_VALUE;  
        int smallest =Integer.MAX_VALUE;  
        int largest =0;  
        int avrgSales = 0;  
        int noOfMin = 0;  
        System.out.println("Enter the number of sales people: ");  
        int salesPeople = scan.nextInt();  
        int salesPeopleArray[] = new int[salesPeople];  
        for(int x=0;x<salesPeople;x++) {  
            System.out.printf("Enter sales for salesperson %d", x==0?1:x+1);  
  
            Sales = scan.nextInt();  
            totalSales += Sales;  
            numOfSales++;  
            smallest=smallest<Sales?smallest:Sales;  
            smallByWhi=smallest<Sales?smallByWhi:x+1;  
            largest=largest<Sales?Sales:largest;  
            largestByWho=largest<Sales?largestByWho:x+1;  
            salesPeopleArray[x]=Sales;  
  
        }  
  
        avrgSales = (totalSales/numOfSales);  
        System.out.printf("%10s%10s%n", "Salesperson", "Sales");  
        for(int i=0;i<salesPeopleArray.length;i++) {  
            System.out.printf("%6d%15d%n",i==0?1:i+1,salesPeopleArray[i]);  
        }  
  
        System.out.println("\nTotal Sales: " + totalSales);  
        System.out.println("\nAverage Sales: " + avrgSales);  
        System.out.println("\nMinimum Sales Value: " + smallest + " By Salesperson  
" + smallByWhi);  
        System.out.println("\nMaximum Sales Value: " + largest + " By Salesperson
```



```
" + largestByWho);

    System.out.println("Enter a sales amount: ");
    int minSales = scan.nextInt();
    System.out.printf("%10s%10s%n", "Salesperson", "Sales");
    for (int x=0;x<salesPeopleArray.length;x++) {
        if(salesPeopleArray[x]>=minSales) {
            noOfMin++;
            System.out.printf("%6d%15d%n",x==0?1:x+1,salesPeopleArray[x]);
        }
    }
    System.out.println(noOfMin + " Salespeople had over " + minSales);
}
}
```



