JAVA DIGITAL ASSIGNMENT 1

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Q1

1. Use an array to solve this problem. First prompt for and read the sales for each of 8 representatives in a two wheeler sales company. Print out the ids and amount of sales for each representatives and the total sales for a first week of a specified month (your choice). Also perform this additional functionality. Print the Minimum sale and Maximum sale with the representative's ids.

Ans

CODE written in eclipse ide

```
package Da1;

import java.util.*;

class sperson{
	public sperson() {}
	int id;
	int sales;
}

public class question1 {
	public static void main(String args[]) {
		Scanner sc =new Scanner(System.in);
		sperson s[]=new sperson[8];

		for(int i=0;i<8;i++) {
			s[i]=new sperson();
			System.out.println("id of person "+i+1);
			s[i].id=sc.nextInt();
			System.out.println("sales of person "+i+1+ " in week 3 of
			february");
			s[i].sales=sc.nextInt();
		}
		sc.close();

		System.out.println("The id and sales are: ");
		int total=0;
		for(int i=0;i<8;i++) {
			System.out.print(s[i].id+"  "+s[i].sales);
			System.out.println();
			total+=s[i].sales;
		}
		System.out.println("The total sales are: "+total);
```

```
		int min=0;
		int max=0;
		for(int i=0;i<8;i++) {
			if (s[i].sales>max)
				max=i;
			if(s[i].sales<min)
				min=i;
		}
		System.out.println("The max sales are "+s[max].sales+" done by
"+s[max].id+"\nThe min sales are "+s[min].sales+" done by "+s[min].id);


	}
}
```

Input

```
id of person 1
1000
sales of person 1 in week 3 of february
1902
id of person 2
1001
sales of person 2 in week 3 of february
4930
id of person 3
1002
sales of person 3 in week 3 of february
8329
id of person 4
1003
sales of person 4 in week 3 of february
9902
id of person 5
1004
sales of person 5 in week 3 of february
0192
id of person 6
1005
sales of person 6 in week 3 of february
1839
id of person 7
1006
sales of person 7 in week 3 of february
9202
id of person 8
1007
sales of person 8 in week 3 of february
9282
```

Output

```
The id and sales are:
1000  1902
1001  4930
1002  8329
1003  9902
1004  192
1005  1839
1006  9202
1007  9282
The total sales are: 45578
The max sales are 9282 done by 1007
The min sales are 1902 done by 1000
```

Q2

2. Create an array to store the score of players in a cricket match. Create an integer array of length 11 and then define a method called addscore ( ) that adds the array with random numbers (Range 0-110]. Once you have done this, define some code that loops through the array, and for each element, prints to the console whether the Score is good or bad. For example if the array is {2,55,25,9, ...}, the output will be:
   a[0] = bad
   a[1] = good
   a[2] = good
   a[3] = bad

CODE

```
package Da1;

import java.util.*;

class javamethod{
public static void addscore(int arr[],int n) {
	Random rand=new Random();
	for (int i=0;i<n;i++)
	{
		arr[i]=rand.nextInt(111);
	}
}
}
public class question2 {

	public static void main(String[] args) {
		int score[]=new int[11];
		javamethod.addscore(score,11);

		for(int i=0;i<11;i++) {
```

```
                    if(score[i]>110/2) //my condition for separating good scores
and bad scores
                          System.out.println(score[i]+" a["+i+"] = good");
                    else
                          System.out.println(score[i]+" a["+i+"] = bad");
             }
      }

}
```

OUTPUT

```
70 a[0] = good
68 a[1] = good
85 a[2] = good
74 a[3] = good
51 a[4] = bad
42 a[5] = bad
106 a[6] = good
33 a[7] = bad
67 a[8] = good
101 a[9] = good
28 a[10] = bad
```

Q3

3. Write a java program for the inter college event registration using string array. The number of events conducted is 3. Name the sessions according to your conveyance.
   Get the Register no for students for Event 1 and store it in one array. Compare with the registrations done for Event 2 and Event 3 check for duplicate entry. No students are allowed to register for more than two events, IF so kindly throw an error message and print the same with the register number of the student.

CODE

```
package Da1;
import java.util.*;
public class question3 {

      public static void main(String[] args) {
            Scanner sc=new Scanner(System.in);
            System.out.println("Enter no. of registrations per event: ");
            int n=sc.nextInt();
            String s1[]=new String[n];
            String s2[]=new String[n];
            String s3[]=new String[n];

            System.out.println("Enter "+3*n+" registration numbers");
            System.out.println("Event 1");
```

```
		for(int i=0;i<n;i++) {
			String temp;
			temp=sc.next();
			s1[i]=temp;
			for(int j=0;j<i;j++) {
				if(temp.equals(s1[j]))
				{
					System.out.println("duplicate entry and renter");
					temp=sc.next();
					s1[i]=temp;
					break;
				}
			}
		}
		System.out.println("Event 2");
		for(int i=0;i<n;i++) {
			s3[i]=sc.next();
			for(int j=0;j<i;j++) {
				if(s2[i].equals(s2[j]))
				{
					System.out.println("duplicate entry and renter");
					s2[i]=sc.next();
					break;
				}
			}
		}
		System.out.println("Event 3");
		for(int i=0;i<n;i++) {
			s3[i]=sc.next();
			for(int j=0;j<i;j++) {
				if(s3[i].equals(s3[j]))
				{
					System.out.println("duplicate entry and renter");
					s3[i]=sc.next();
					break;
				}
			}
		}
		sc.close();

		for(int i=0;i<n;i++) {
			for(int j=0;j<n;j++) {
				for(int k=0;k<n;k++) {
					if (s1[i].equals(s2[j]) && s2[j].equals(s3[k])) {
						System.out.println("Error thrown:
Registration number "+s1[i]+"has registered in more than 2 events");
					}
				}
			}
		}


	}

}
```

OUTPUT

```
Enter no. of registrations per event:
5
Enter 15 registration numbers
Event 1
19BCB0089
19BCB0086
19BCB0089
duplicate entry and renter
19BCB0088
19BCB0084
19BCB9820
Event 2
19BCI8923
19BCT8392
18BCT0029
19BCB0089
19BCT0938
Event 3
19BBT8829
19BBT0055
18BCB0983
19BCB0089
19BCB0086
Error thrown: Registration number 19BCB0089 has registered in more than 2 events
```