Quiz result Year-2017

The result of a quiz competition is to be prepared as follows:
The quiz has five questions with four multiple choices (A, B, C, D), with each question carrying 1 mark for the correct answer. Design a program to accept the number of participants N such that N must be greater than 3 and less than 11. Create a double dimensional array of size (Nx5) to store the answers of each participant row-wise.
Calculate the marks for each participant by matching the correct answer stored in a single dimensional array of size 5. Display the scores for each participant and also the participant(s) having the highest score.
Example: If the value of N = 4, then the array would be:

	Q.1	Q.2	Q.3	Q.4	Q.5
Participant 1	A	B	B	C	A
Participant 2	D	A	D	C	B
Participant 3	A	A	B	A	C
Participant 4	D	C	C	A	B

Key to the question:	D	C	C	A	B

Note: Array entries are line fed (i.e. one entry per line)
Test your program with the sample data and some random data:

Example 1

INPUT : N = 5

Participant	1	D	A	B	C	C
Participant	2	A	A	D	C	B
Participant	3	B	A	C	D	B
Participant	4	D	A	D	C	B

Participant 5 B C A D D
Key: B C D A A

OUTPUT : Scores :

Participant	1	D	A	B	C	C
Participant		1		=		0
Participant		2		=		1
Participant		3		=		1
Participant		4		=		1
Participant						

Participant 5 = 2
Highest score: Participant 5

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Example 2

INPUT : N = 4

Participant 1 A C C B D

Participant 2 B C A A C

Participant 3 B C B A A

Participant 4 C C D D B

Key: A C D B B

OUTPUT : Scores :

Participant 1 = 3

Participant 2 = 1

Participant 3 = 1

Participant 4 = 3

Highest score:

Participant 1

Participant 4

Example 3

INPUT : N = 12

OUTPUT : INPUT SIZE OUT OF RANGE.

Solution :

```
import java.util.*;
class prt_17_arr
{
 public static void main()
 {
  Scanner sc=new Scanner(System.in);
  char arr2d[][];
  char arr1d[]=new char[5];
  int high[];
  int i,j,n,k=0,mx=0,part=0;
  int prt=0,scr=0;
  System.out.println("Enter number of participants :");
  n=sc.nextInt();
  if(n>3 && n<11)
  {
  arr2d=new char[n][5];
  high=new int[n];
   for(i=0;i<n;i++)
    {
     for(j=0;j<5;j++)
        {
        System.out.println("Enetr your answer for participant"+(i+1));
        arr2d[i][j]=sc.next().charAt(0);
        }
    }

  for(i=0;i<n;i++)
```


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```
{
  System.out.print("PARTICIPANT "+(i+1));
 for(j=0;j<5;j++)
    {
     System.out.print("\t"+arr2d[i][j]+" ");
    }
    System.out.println();
}
 System.out.println("Enter 5 Right answer or  KEY: ");
for(i=0;i<5;i++)
    {
     arr1d[i]=sc.next().charAt(0);
    }
  System.out.print(" KEY: ");
for(i=0;i<5;i++)
    {
       System.out.print(arr1d[i]+" ");
    }
    System.out.println();
     for(i=0;i<n;i++)
        {
         for(j=0;j<5;j++)
            {
             if(arr1d[j]==arr2d[i][j])
               {
                  scr++;
               }
            }
             high[k++]=scr;
            System.out.print("PArticipant "+(i+1)+ " = "+scr);
            scr=0;
       System.out.println();
   }
       System.out.println("Higest score :");
        mx=high[0];
     for(i=0;i<k;i++)
        {
          if(high[i]>mx)
            {
             mx=high[i];
             part=(i+1);
            }
         //System.out.print(high[i]+"  ");
        }
        System.out.println("PArticipant "+part);
```

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```
            System.out.println("MAX="+mx);
        }
        else
        {
          System.out.println("INPUT SIZE OUT OF RANGE.....");
        }
    }
}
```

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