

PROGRAMMEREN 1

PROJECT

HERKANSING

ONS RAPPORT

Create an application where the teacher can enter points. Afterwards, there are a lot of fun statistics to get from these points. Are you up to the challenge?

This application should be made as a console application. If you feel strong enough, then this may be a WPF application.

De start

- Have the teacher enter his/her name (for example: "Oscar").
- Welcome the teacher afterwards Enter the name of the class (for example: "1A")
- Ask how many students are in the class (for example: 4)
- Ask how many subjects (exams) are in the class (for example: 3)
- When creating a class, a report is automatically created.
- So after entering the above data, we have an 'empty' report. Show this report to the user.

```
Hallo Oscar! Geniet van deze applicatie :-)
```

```
Klas 1A
```

```
-----
```

```
Nr   Naam           Vak 1           Vak 2           Vak 3
```

```
1
```

```
2
```

```
3
```

```
4
```

- The user must first enter the names of students (for example: "philippe", "Elisa", "Jef", "Peggy")
 - Sort the names
- Then he enters the names of the courses (for example: "programming", "communication" and "WebTech")
 - Sort the names
- Show this report tot he user.

```
Hallo Oscar! Geniet van deze applicatie :-)
```

```
Klas 1A
```

```
-----
```

```
Nr   Naam           Communicatie   Programming   Webtech
```

```
1    Elisa
```

```
2    Jef
```

```
3    Peggy
```

```
4    Philippe
```

Ingave van de punten

- The points have to be entered
 - Go over all students by subject and have them enter points by subject

```
Elisa:      11
Jef:        13
Peggy:       8
Philippe:   18
-----

Geef de punten van klas 1A in voor het vak "Programmeren"

Elisa:       9
Jef:         21 -> Dit is niet mogelijk (maximum is 20)... Probeer opnieuw!
Jef:         19
Peggy:       -1 -> Dit is niet mogelijk (minimum is 0)... Probeer opnieuw!
Peggy:        2
Philippe:    16
-----

Geef de punten van klas 1A in voor het vak "Webtech"

Elisa:       5
Jef:         8
Peggy:      17
Philippe:    16
```

- Show this report to the user.
 - Show results above 12/20 in green, results 10 and 11 in orange, results below 10 in red.

```
Klas 1A
-----
Nr  Naam      Communicatie  Programming  Webtech
1   Elisa      11           9            5
2   Jef        13          19           8
3   Peggy       8           2           17
4   Philippe   18          16          16
```

Wie is geslaagd? Spannend!

- When all subject are above 10/20
 - >50 en < 70: voldoende
 - >70 en <75: onderscheiding
 - >75 en <80: grote onderscheiding
 - >80: grootste onderscheiding
- When the student has a total of less than 3 points:
 - >50 en < 70: voldoende
 - >70 en <75: onderscheiding
 - >75 en <80: grote onderscheiding
 - >80: grootste onderscheiding
 - Voorzie wel een waarschuwing bij de tekorten
- When the student has a total of more than 3 points:
 - Unsuccessful → courses below 12/20 must be redone: provide a list

Test your program by creating some students.

Print this out for each student.

```
Geslaagd of herexamens?  
Elisa:      Niet geslaagd  
  
            Elisa heeft een herexamen voor:  
  
            - Communicatie  
  
            - Programming  
  
            - Webtech  
  
Jef:        Geslaagd (voldoende)  
  
            Jef heeft een waarschuwing voor:  
  
            - Webtech  
  
Peggy: Niet geslaagd  
  
            Peggy heeft een herexamen voor:  
  
            - Communicatie  
  
            - Programming  
  
Philippe:   Geslaagd (grootste onderscheiding)
```

En dan nu de statistieken!

Maak vervolgens een overzichtje met onderstaande statistieken!

- Then make a summary with the statistics below!
- The average score per subject
- The worst subject of the class
- The best subject of the class
- The average score of all courses of all students
- The best student
- The worst student
- Which student (name) has the highest score for WebTech?
- Which student (name) scored the highest value for any subject
- Who all passed?
- What score does Philippe have for Webtech?
- What is Philippe's average score?
- Who has distinction?
- Which subject has a class average of below 50%
- Who all has retakes?
- Who all has retakes for Programming?
- Which subject has the most re-exams?

