

```
C:\WINDOWS\system32\cmd.exe

Number Name          Mark
3      Ben Dover      43

Please select from the following
1. Enter student name and mark
2. Display all student names and marks
3. Display Statistics
4. Search for student
5. Exit the application
Enter choice==> 2

Number Name          Mark
1      Fred Fish      78
2      Bob Down        56
3      Ben Dover      43

Please select from the following
1. Enter student name and mark
2. Display all student names and marks
3. Display Statistics
4. Search for student
5. Exit the application
Enter choice==>
```

3. Display statistics: `displayStatistics()`

When this option is selected you will display the statistics as per assignment one.

```
C:\WINDOWS\system32\cmd.exe

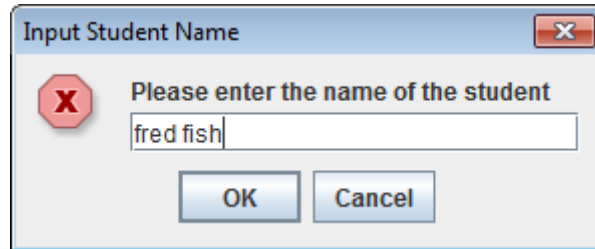
Please select from the following
1. Enter student name and mark
2. Display all student names and marks
3. Display Statistics
4. Search for student
5. Exit the application
Enter choice==> 3

Statistics for the course
Fred Fish has the maximum mark of 78
Ben Dover has the minimum mark of 43
Average mark is 59
2 student(s) passed the course.
1 student(s) failed the course.
The percentage of students who passed the course is: 67%

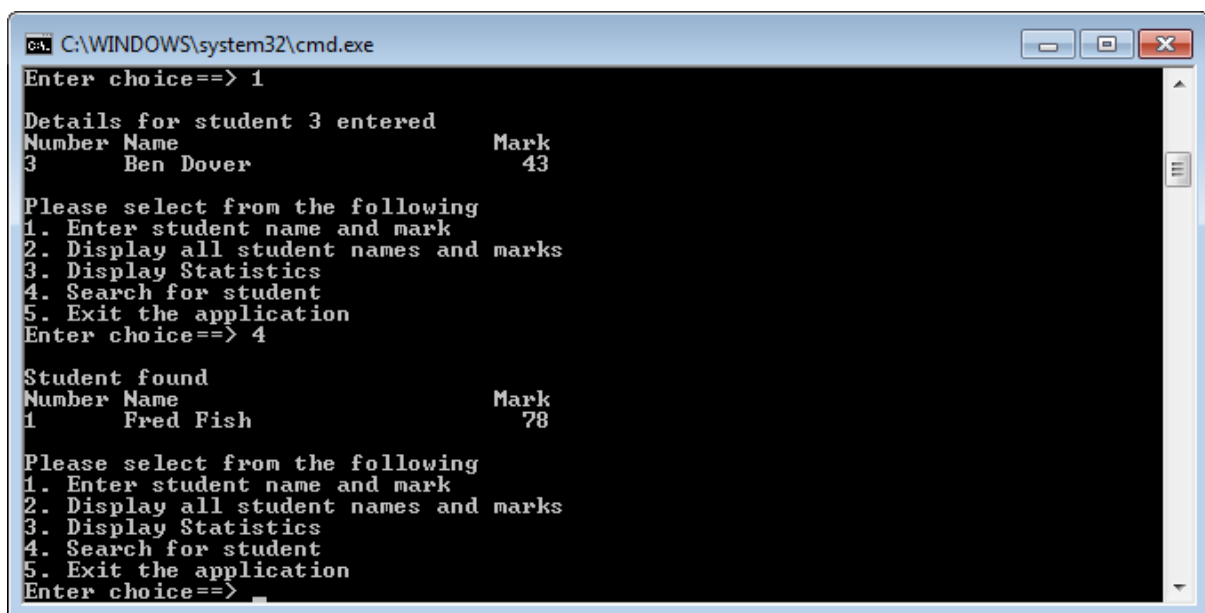
Please select from the following
1. Enter student name and mark
2. Display all student names and marks
3. Display Statistics
4. Search for student
5. Exit the application
Enter choice==>
```

4. Search for student: `searchStudent()`

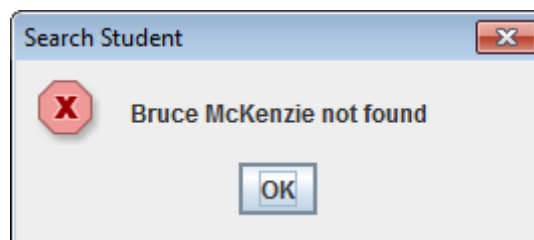
You can just use a simple linear search which will be case insensitive. Use the `showInputDialog()` method to input the name (you can share this functionality from enter student).



If the search is successful display the details about the student.

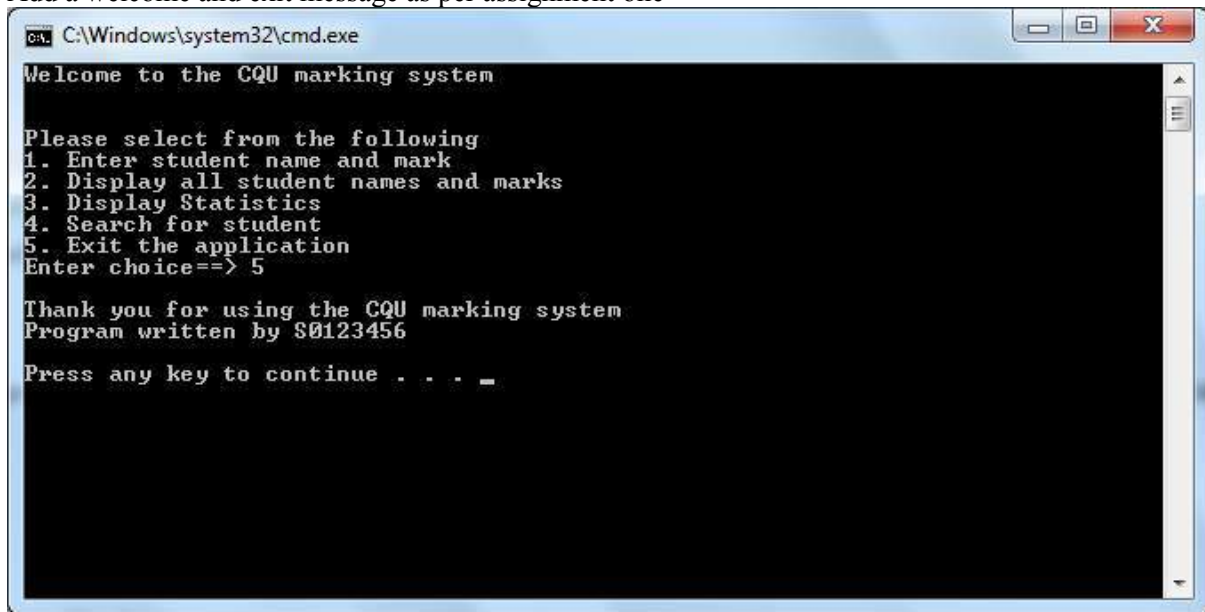


If the search is unsuccessful display an appropriate message.



Welcome and exit message

Add a welcome and exit message as per assignment one



```
C:\Windows\system32\cmd.exe
Welcome to the CQU marking system

Please select from the following
1. Enter student name and mark
2. Display all student names and marks
3. Display Statistics
4. Search for student
5. Exit the application
Enter choice==> 5

Thank you for using the CQU marking system
Program written by S0123456

Press any key to continue . . . _
```

Extra Hints

Your program should be well laid out, commented and uses appropriate and consistent names (camel notation) for all variables, methods and objects.

Make sure you have no repeated code (even writing headings in the output)

Constants must be used for all numbers in your code.

Look at the marking criteria to ensure you have completed all of the necessary items

Refer to a Java reference textbook and the course and lecture material (available on the course web site) for further information about the Java programming topics required to complete this assignment.

Check output, check code and add all of your comments, complete report and the UML activity diagram.

Supplied Code

Download, compile and run the supplied code available from the course web site.

You will see the menu interface has been implemented and you have to implement the underlying code, use the supplied method stubs and add you own methods.

Again no code should be repeated in your program.

If you just submit the supplied code you will receive zero marks.

Good luck! Bruce McKenzie Course Coordinator T315 COIT 11222