



weighted grading application limitation and improvement

- **limitation:**

1. Lack of error check: when the user enters the wrong data, there is no specific error prompt and re-run (for example, a total score is incorrectly entered as 0 or minus).
2. Cannot add data to the existing run results: can not continue to add data after one run and the correct result. Users have to re-enter the data.
3. This application can only calculate the grade of one student at a time. If the number of students is large, the calculation is a waste of time.
4. Each digit must be separated by a space, and -1 indicates the end of the type of data input. This type of input does not lead to a good experience for the user, because the user may accidentally type in the wrong way. But if an error occurs, you need to run it again.

- **improvement:**

1. When the scanner reads the total score, if the total score=0 or minus , it throws an exception and prompts user to input again. And if the earned grade=minus, or the percentage= minus, throw an exception also.

example: *if(s <= 0){*

throw new Exception("Error! The total grade cannot be minus or zero! ")

}

2. Ask if users want to add more data after reaching a conclusion. Users can add a boolean variable to determine the status. After the first evaluation, the status is true and users are asked if they want to continue adding data. If -1 is entered, no more data is entered and the program ends.

3. Call interface to process Excel data files can quickly calculate a large amount of data. For post/form-data requests, File is sent to file, other parameters are sent to Text.

file. getOriginalFilename(); Get the file name.

is= file.fetinpustream (); Generate a file input stream.

workbook = new XSSFWorkbook(is); Generate objects to understand an Excel file.

Sheet = workbook.getSheetAt(0); Get the first sheet.

Row titleRow= sheet.getRow(0); Gets the first row of sheet.

Then go through a for loop to get the value of each cell.

4. Use GUI to help users more convenient input data, get the calculation results. And to a certain extent, the operation error is avoided