CS5107 – Assignment 1

For this assignment, you will write a script grading.sh that "grades" solutions to a hypothetical homework assignment. You are given a set of students' solution files, each of which is supposed to be named task1.sh (though some students may have used the wrong file name), and your script will run each of them one at a time or based on the user input roll number, examining the output to see if it matches the expected output. The output from a run of your program will look like this (the first line is the shell prompt). The students folder has all the students' submissions according to their roll number. The script gradeing.sh will do the following:

1. Give output two options while you run the script:
    a. Option1 – Autograde all the students
    b. Option2 – Autograde based on the roll number
    c. Option 3 - Exit
2. Option 1 will read all the students submission one by one and give the final output as
    ```
    Ram has earned a score of 50 / 50
    Shyma has earned a score of 20 / 50 …
    ```

3. Option 2 will ask for the roll number and according to the user input it will give one output at a time as shown above.
4. The script will go to the default three options once it finished the tasks of one option.
5. The student_details file has the students' name according to their roll number. So while grading the marks and giving scores as output, you need to fetch the names from the file and give the output as shown above
6. **Scoring mechanism:** If a student Ram has no differing lines of output, the score output for that student would be:
    Ram has earned a score of 50 / 50
    If student Ram has 3 differing lines of output (-15), the score output would be
    Ram has earned a score of 35 / 50