FIT9133 Assignment #1

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Roopesh Kumar Ramesh
Student ID: 30344565
Email: rram0019.student.monash.edu
Master of Data Science
Monash University

Description:

Python program to calculate nerd score of students.

There are 3 files:

- menu_30344565.py:
- nerdScore_30344546.py
- findClass_30344565.py

menu_30344565.py

Consists of a user selectable CLI menu. The user has to input number 1 through 5 to select a menu item.

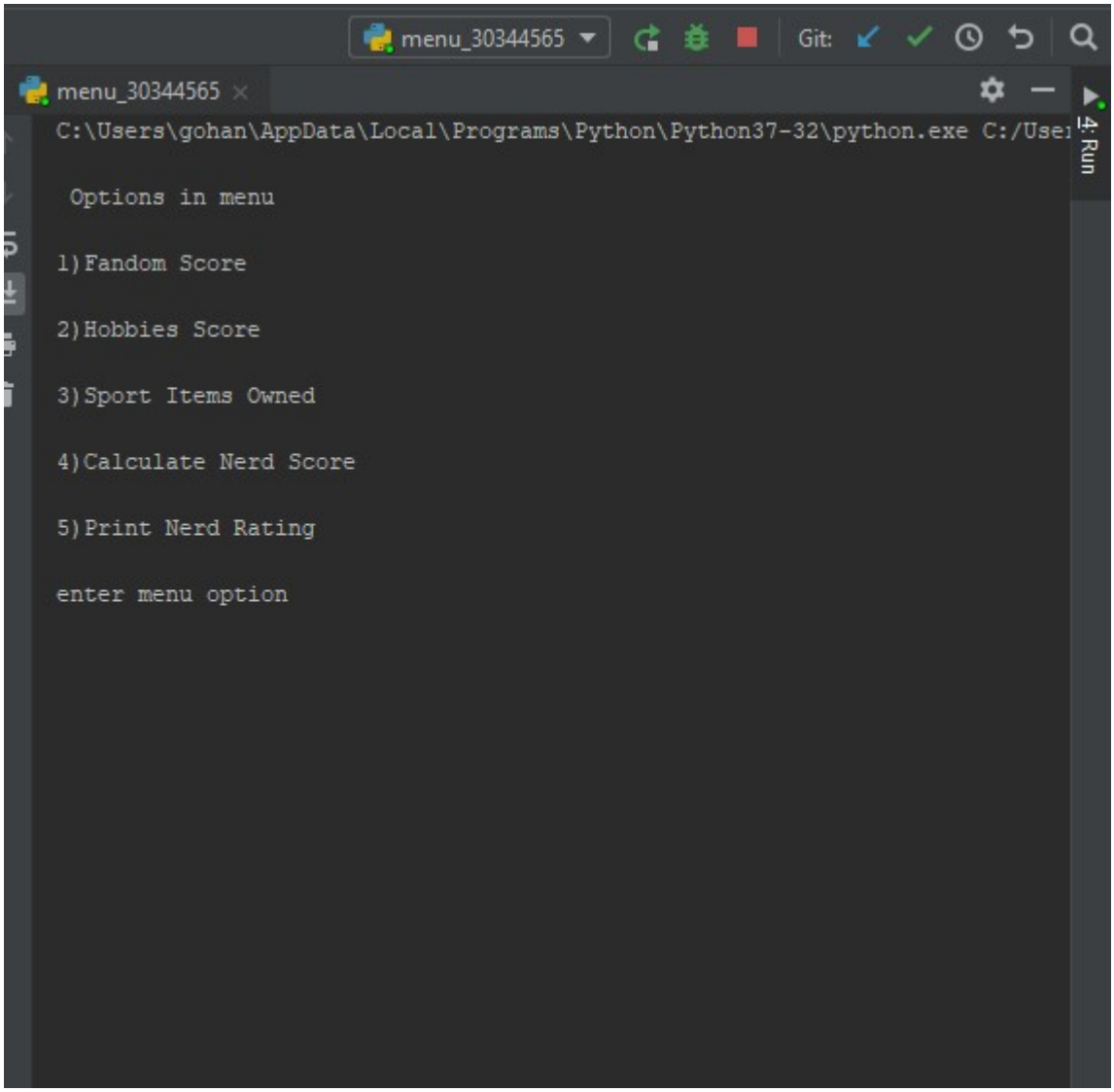

Figure 1: Menu Options

All menu options have validation in place such that an invalid input will return an error message.

The user has to input all Fandom Score, Hobbies Score and Number of sports played in any order before Calculating the nerd score.

```
 Options in menu

1)Fandom Score

2)Hobbies Score

3)Sport Items Owned

4)Calculate Nerd Score

5)Print Nerd Rating

enter menu option1

validating fandom score

enter fandom score5
->Entered value: 5
success
```

Figure 2: Fandom Score

```
2)Hobbies Score

3)Sport Items Owned

4)Calculate Nerd Score

5)Print Nerd Rating

enter menu option2

---validating Hobbies_Score as a multiple of 4---

enter hobbies score as a multiple of 43
please try again for hobbies score

enter hobbies score as a multiple of 44
->Entered value: 4
success
```

Figure 3: Hobbies Score

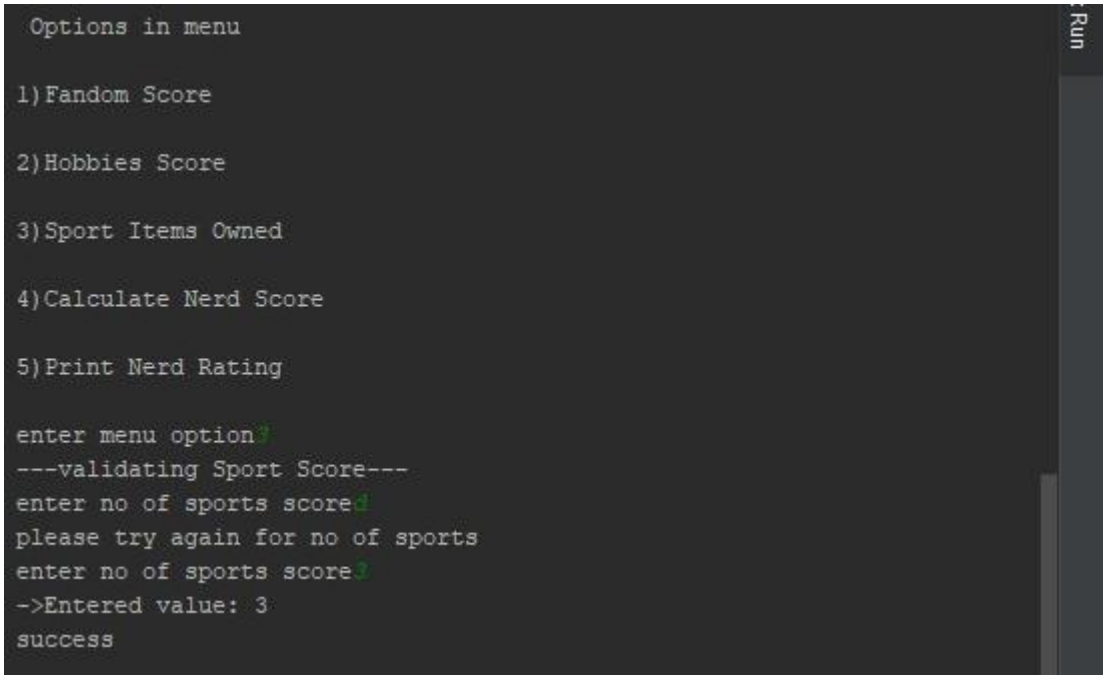

Figure 4: No of Sport Items Owned

After entering all details user can calculate nerd score by selecting appropriate menu option.

Figure 5: Calculated Nerd Score

Print Nerd Rating prints the nerd rating of all students stored.

```
 Options in menu

1)Fandom Score

2)Hobbies Score

3)Sport Items Owned

4)Calculate Nerd Score

5)Print Nerd Rating

enter menu option5
findclass result is:
[0, 0, 1, 0, 0, 0, 0]
student 0 nerdClass is: Nerdlinge
```

Figure 6: Print Nerd Rating

nerdScore_30344565.py

This file calculates the nerdscore using the formula provided.

```
C:\Users\gohan\AppData\Local\Programs\Python\Python37-32\python.exe C:/Use
18.33030277982336

Process finished with exit code 0
```

Figure 7: NerdScore Calculation

findClass_30344565.py

This file outputs the student's nerdclass which is determined by the score.

```
C:\Users\gohan\AppData\Local\Programs\Python\Python37-32\python.exe C:/Use
[0, 0, 2, 0, 1, 1, 0]

Process finished with exit code 0
```

Figure 8: List with class of students