



FIT9133 Assignment #1

Week6, April 2019

Roopesh Kumar Ramesh

Student ID: 30344565

Email: rram0019.student.monash.edu

Master of Data Science

Monash University

Description:

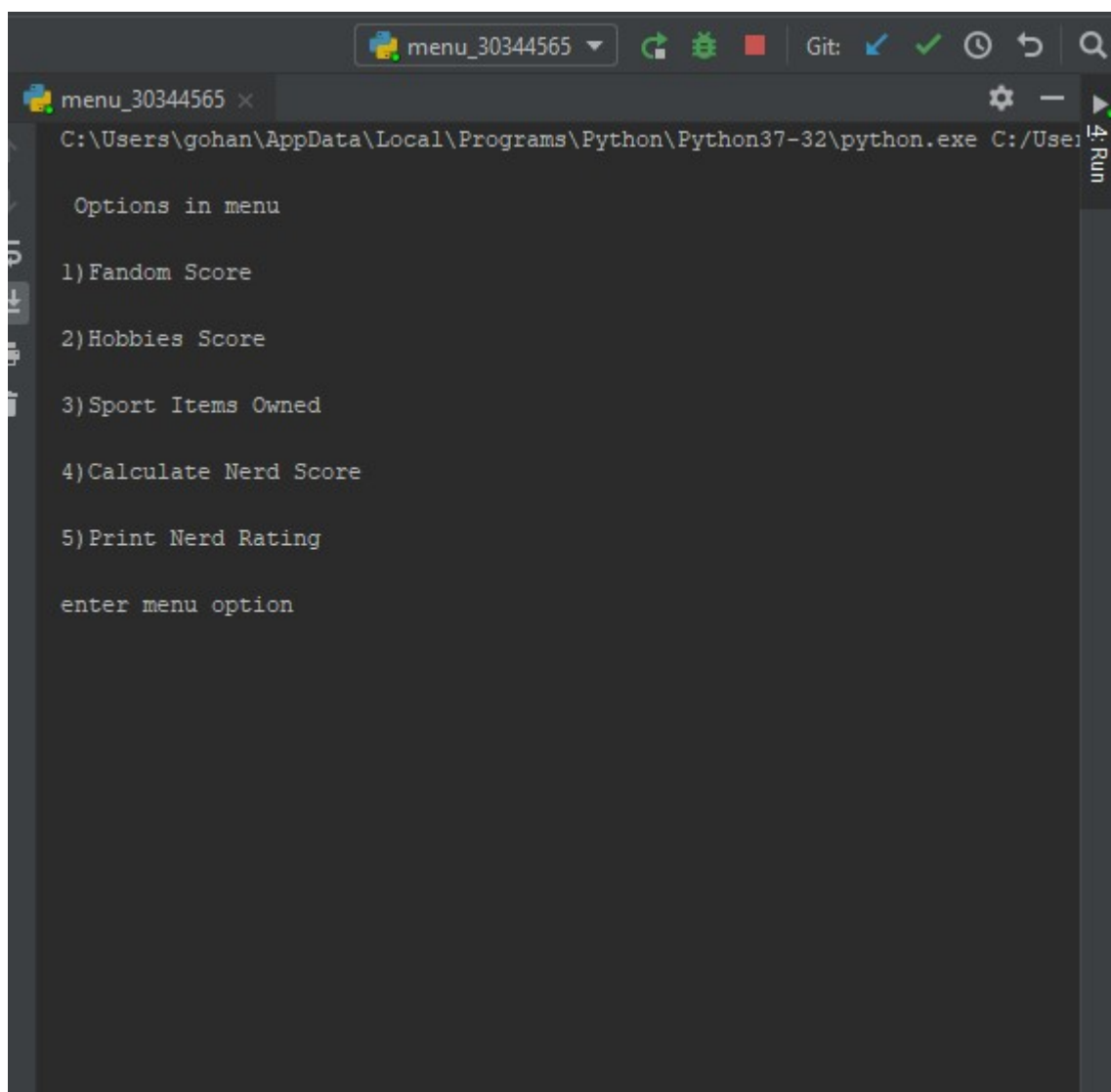
Python program to calculate nerd score of students.

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.

A screenshot of a terminal window running a Python script. The window title is 'menu_30344565'. The command bar shows the path 'C:\Users\gohan\AppData\Local\Programs\Python\Python37-32\python.exe C:/Use...'. The terminal output displays a menu with five options: '1) Fandom Score', '2) Hobbies Score', '3) Sport Items Owned', '4) Calculate Nerd Score', and '5) Print Nerd Rating'. Below the options, it prompts the user to 'enter menu option'. The terminal has a dark background with light-colored text. The window includes standard OS controls and a Git status bar at the top.

```
menu_30344565 x C:\Users\gohan\AppData\Local\Programs\Python\Python37-32\python.exe C:/Use... 4: Run  
Options in menu  
1) Fandom Score  
2) Hobbies Score  
3) Sport Items Owned  
4) Calculate Nerd Score  
5) Print Nerd Rating  
enter menu option
```

Figure 1: Menu Options

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

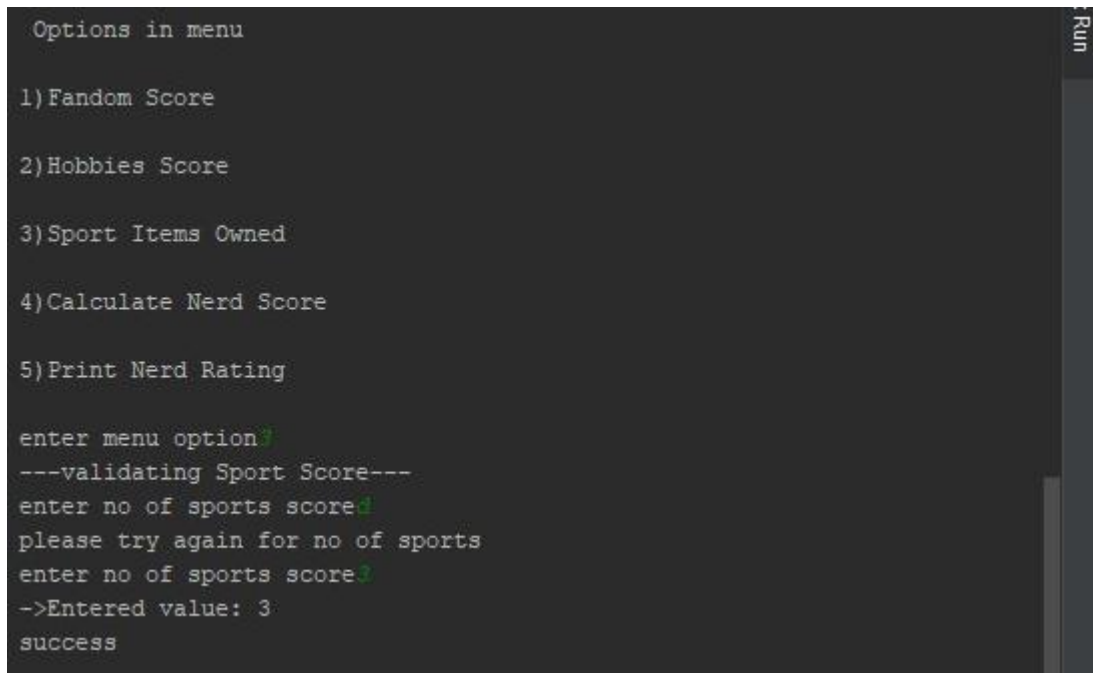
The user has to input all Fandom Score, Hobbies Score and Number of sports played in any order before Calculating the nerd score.

```
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

```
1)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



```
Options in menu

1)Fandom Score

2)Hobbies Score

3)Sport Items Owned


4)Calculate Nerd Score

5)Print Nerd Rating

enter menu option3
---validating Sport Score---
enter no of sports scored3
please try again for no of sports
enter no of sports score3
->Entered value: 3
success
```

Figure 4: No of Sport Items Owned

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



```
Options in menu

1)Fandom Score

2)Hobbies Score

3)Sport Items Owned

4)Calculate Nerd Score

5)Print Nerd Rating

enter menu option4
36.66060555964672
```

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:/User
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:/User
[0, 0, 2, 0, 1, 1, 0]

Process finished with exit code 0
```

Figure 8: List with class of students