## Core Python Assessment Test

- Write a program to demonstrate the student management system.
- Prepare demonstration of crud operations with student management system under software development principles
- Execution of the code following menu must be displayed.
- Make sure each business logic is denoted with appropriate comments and make your code interactive and represent clean and clear output on your console screen.

```
PS C:\Users\Administrator> & python c:/Users/Administrator/Downloads/Student_management_system.py

press 1 for Counsellor
press 2 for Faculty
press 3 for Student

Enter a role id:
```

when user select option 1 then it will display following menu

```
Enter a role id: 1

1. Add student
2. Remove student
3. View all student
4. View Specific Student

Enter a choice by counsellor:
```

- Counsellor can add student, remove student, view all student, view specific student
- Accept all values dynamically from user
- Store all students information in dictionary format
- Make sure this code implements using nested dictionary
- make sure specific student can only search by id any appropriate validation if user entered wrong input - if id doesn't fetch data from dictionary display user does not exist
- create separate file for all business logics and make them reusable use modules concepts for implements above logic

## Counsellor can add details as follows:

```
Enter a role id: 1
            1. Add student
            2. Remove student
            3. View all student
            4. View Specific Student
Enter a choice by counsellor: 1
Enter a Serial Number: 1
Enter a First Name: Priya
Enter a Last Name: Patel
Enter a Contact Number: 7784578568
Enter a Subject: Python
Enter a Marks: 89
enter a fees: 35000
Enter a Subject: Java
Enter a Marks: 85
enter a fees: 40000
```

- Make sure validation proper given on contact number and first name display appropriate message if user enter invalid input and accept values again and again - use looping concepts and string inbuilt methods concepts in this logic implementation
- Make sure code prevent from unexpected exception
   E.g. in contact number users can't be able to enter character value if.. Enter
   Character value return to the previous menu and accept all details again.

## After entered student details output must be like following:

```
{1: {'fname': 'Priya', 'lname': 'Patel', 'contact': '7784578568', 'subject': {
  'Python': {'marks': 89, 'fees': 35000}, 'Java': {'marks': 85, 'fees': 40000}},
  'faculty': 'Anjali'}, 2: {'fname': 'Ramesh', 'lname': 'Sharma', 'contact': '8
  855446685', 'subject': {'Android': {'marks': 89, 'fees': 74500}, 'Php': {'mark
  s': 85, 'fees': 12000}}, 'faculty': 'Nikita'}}
Do you want to perform more operations? (y/n)
```

- faculty can add students marks make sure faculty can view and access own students only
- Generate a log file and store all transaction details in that log file.
- faculty menu as follows:

```
Faculty wants to perfom any other operations? (y/n) y

1.Add marks to student
2.View all student

Enter a choice by Faculty:
```

- After each selection menu must be displayed asking for user input
- After execution of each option confirmation message must be displayed.
- Remove option must ask to user for ID to delete and again ask for confirmation (Y/N) before deletion and display proper message after deletion
- Program should not be terminated till the user Exit it
- Developer needs to test his product before launching it into the market
- After completion this project upload it on GitHub
  - Upload all features in develop branch after completion all features merge it with main branch