ORANGE SOLUTIONS

BIA5001 – Introduction to Statistical Language

Group 8 - Harshit Aggarwal, Inge Angelia, Ravneet Singh, Renzo Moromisato, Sabrina Renna, Snehal Mate, Prasannkumar Bavaria

PURSUIT OF THE OPTIMAL SOLUTION

- How We Do Things -

TEAM MEETING
Brainstorm and Data Architecture

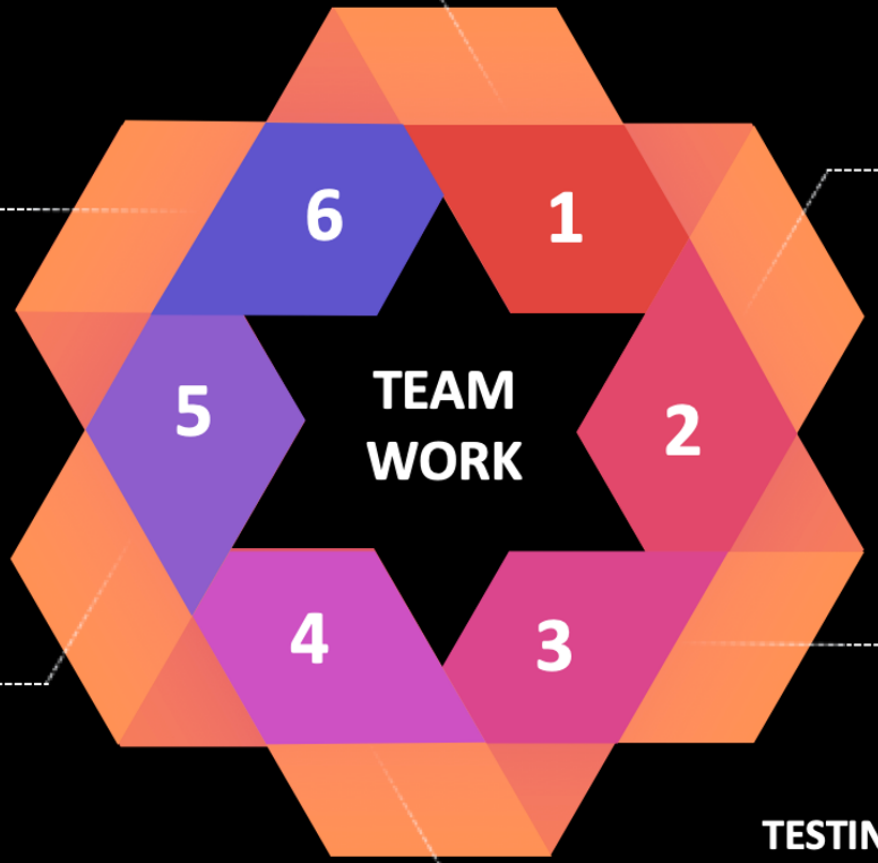
CODING
Each developer wrote their own script

PEER EVALUATION
Most efficient solution preferred

TESTING & DEBUGGING
Each conditions were tested numerous times

CORRECTION & UPGRADE
Fixing the code and make it more efficient

PRESENTATION PREPARATION



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IPO METHODOLOGY

INPUT

- Password
- Number of Students
- Names and Grades per Student

PROCESS

- Password Checking
- Number of Students validation
- GPA Calculation
- School Assignment based on GPA Calculation

OUTPUT

- Printing of Various Reports

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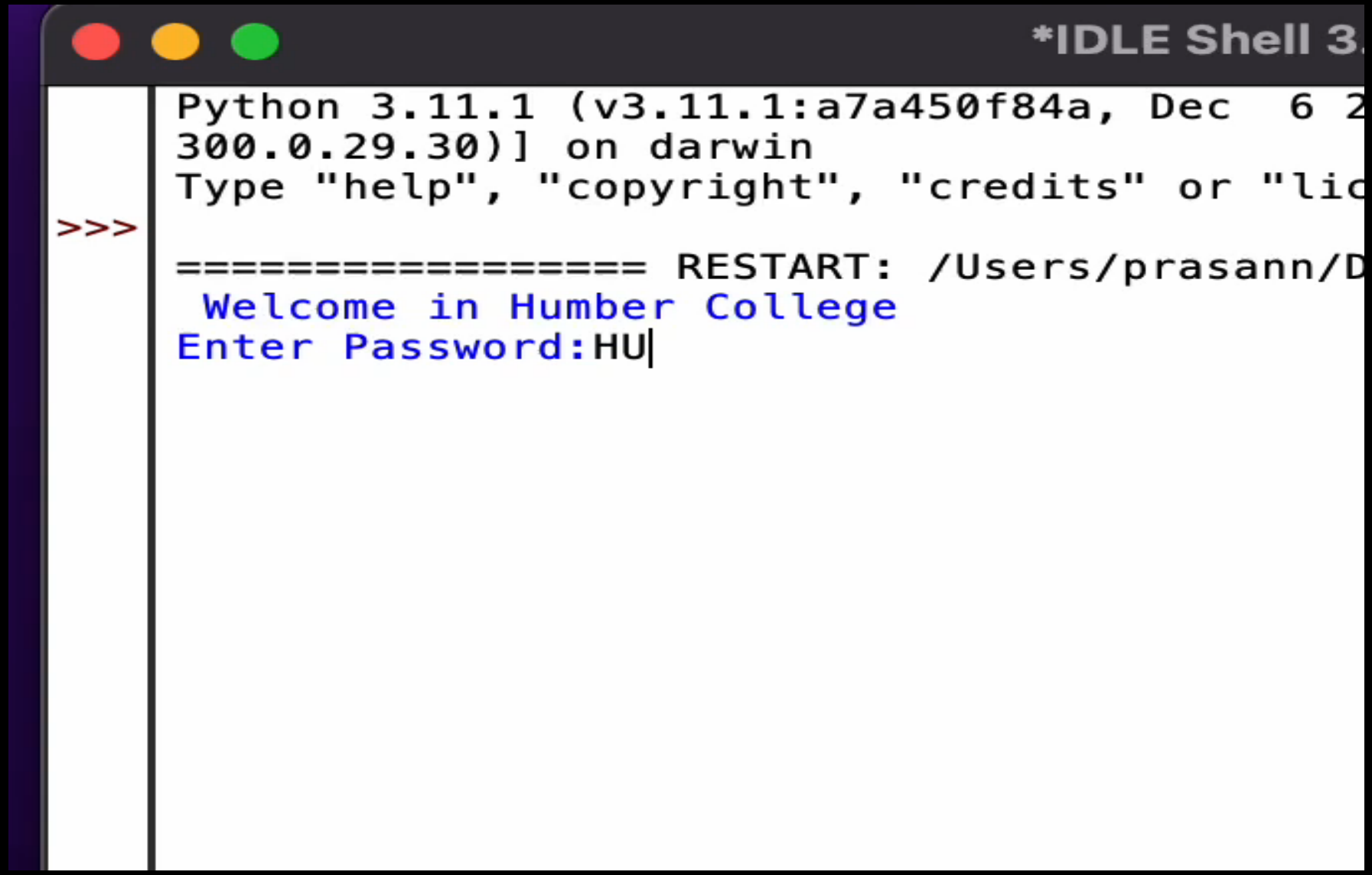
RESULTS

- Password checker – Total number of students input – Students name and grade input – Report printing -

PASSWORD CHECKER - *All Wrong Attempts*



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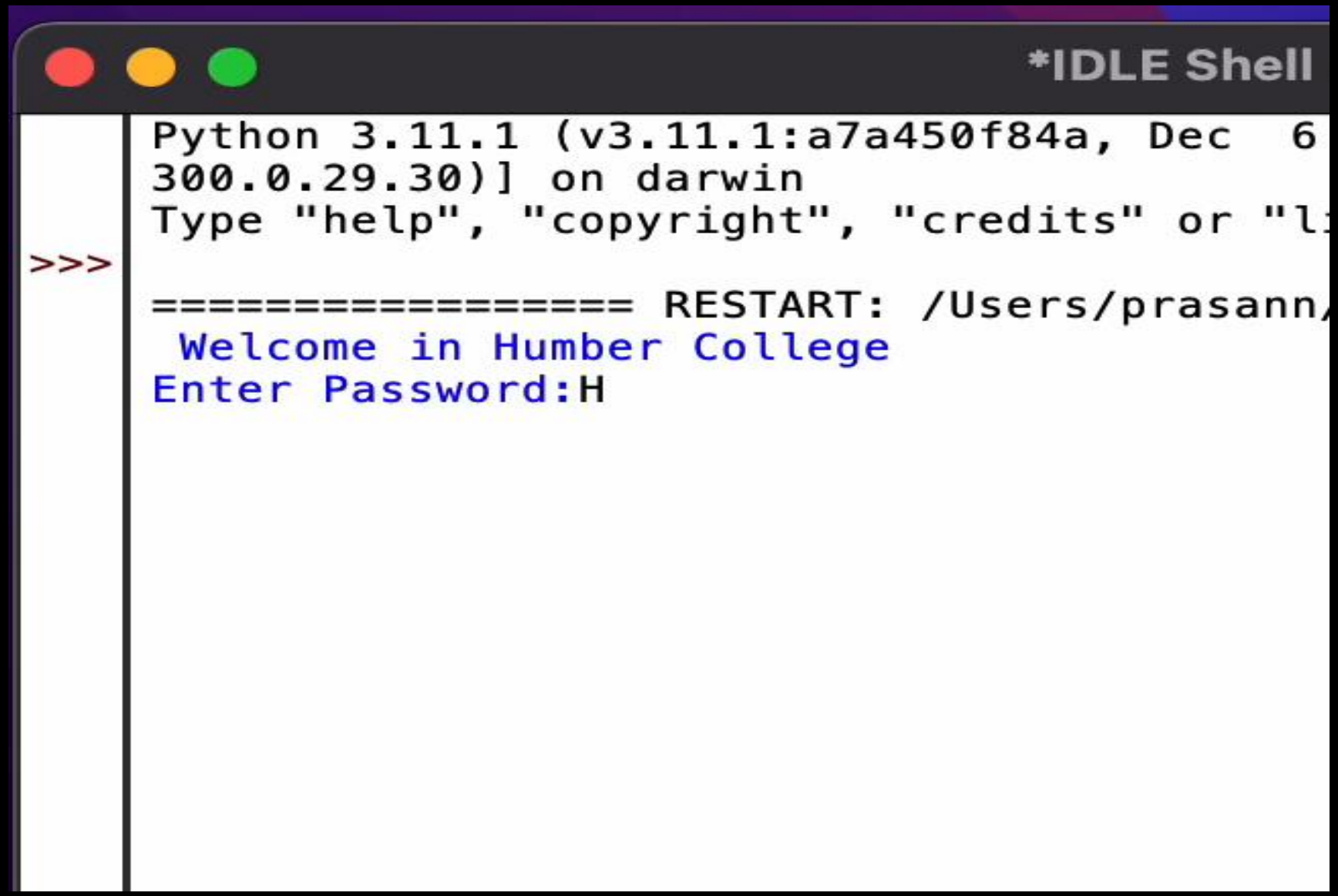
PASSWORD CHECKER - *1 Wrong Attempt*



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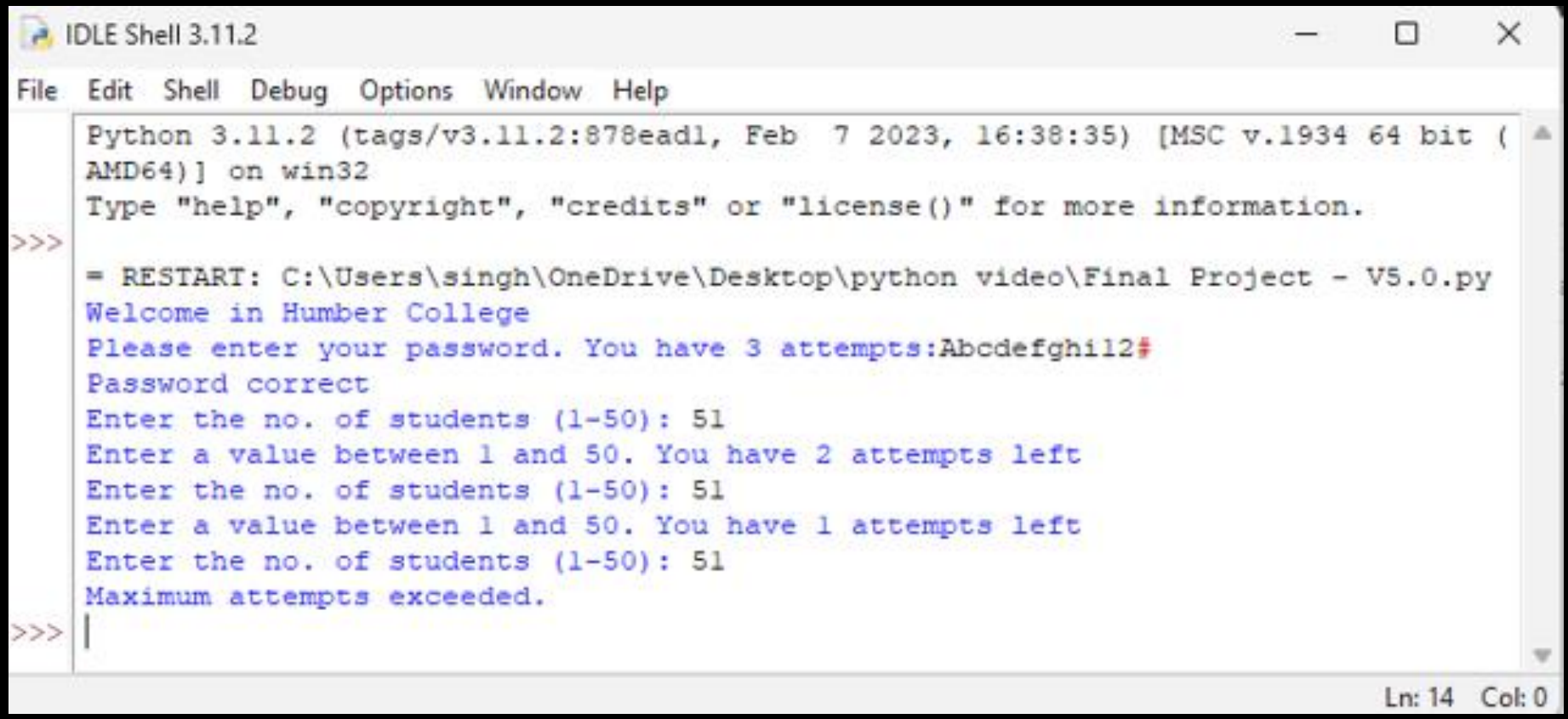
NUMBER OF STUDENTS INPUT – *All Wrong Attempts*



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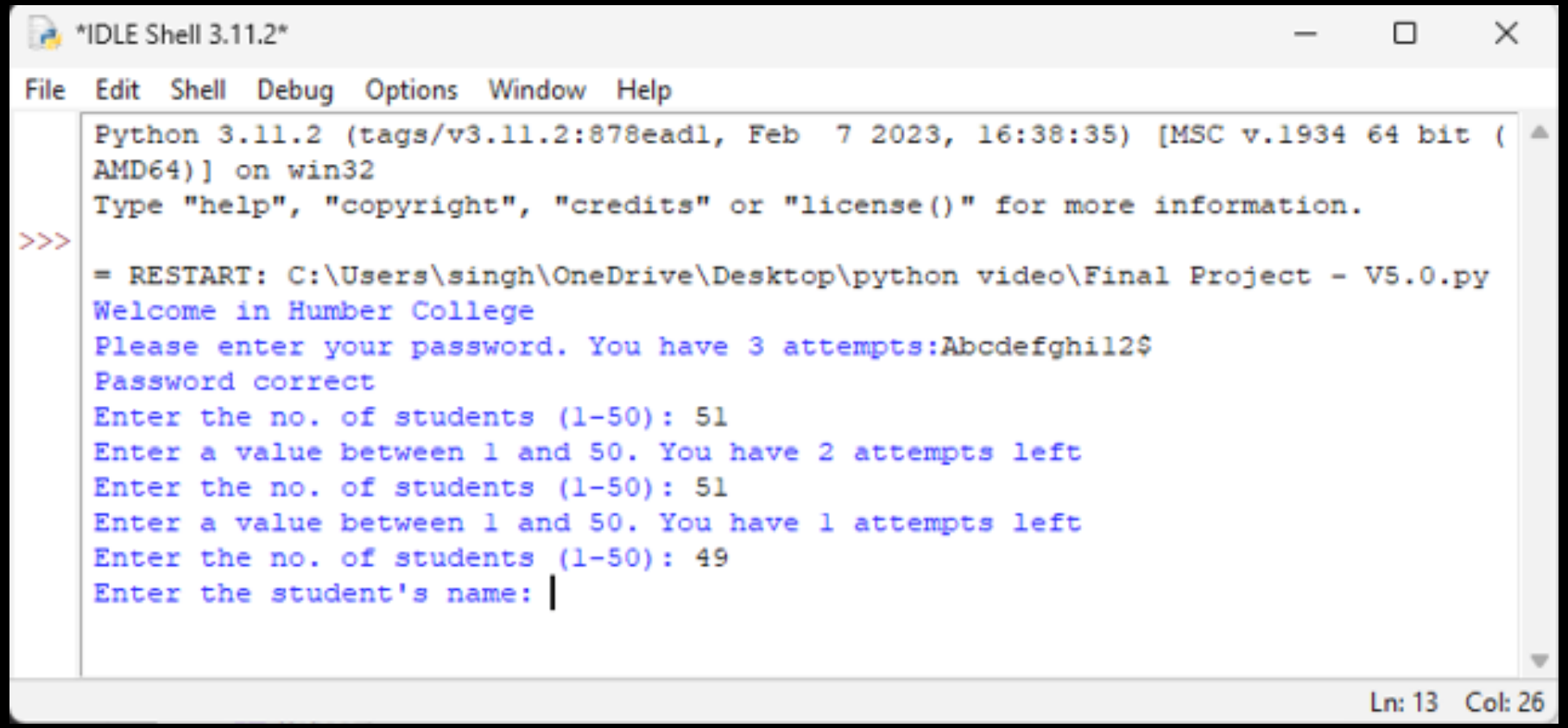
NUMBER OF STUDENTS INPUT – *2 Wrong Attempts, 1 Correct Attempt*



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NAME & GRADE - *All Wrong Attempts*

```
Welcome in Humber College
Please enter your password. You have 3 attemps:Humber12!hahaha
password correct
Enter the no. of students (1-50): 88
Enter a value between 1 and 50. You have 2 attempts left
Enter the no. of students (1-50): 88
Enter a value between 1 and 50. You have 1 attempts left
Enter the no. of students (1-50): 80
Maximum attempts exceeded.

= RESTART: /Users/angeliainge/Downloads/OneDrive_1_3-29-2023/Final Project (2).py
Welcome in Humber College
Please enter your password. You have 3 attemps:
```

Wrong

Program automatically restart to beginning

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NAME & GRADE - *2 Wrong Attempts, 1 Correct Attempt*

```
Please enter your password. You have 3 attemps:Humber12!hahaha
password correct
Enter the no. of students (1-50): 88
Enter a value between 1 and 50. You have 2 attempts left
Enter the no. of students (1-50): 88
Enter a value between 1 and 50. You have 1 attempts left
Enter the no. of students (1-50): 2
Enter the student's name: Ravneet
Input your mark in Math: 90
Input your mark in Science: 90
Input your mark in Language: 90
Input your mark in Drama: 90
Input your mark in Music: 90
Input your mark in Biology: 90
Enter the student's name: Harshit
Input your mark in Math: 90
Input your mark in Science: 90
Input your mark in Language: 90
Input your mark in Drama: 90
Input your mark in Music: 90
Input your mark in Biology: 90
Report no. 1:
```

Wrong

Correct

Report printing function triggered

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NAME & GRADE - *All Correct Attempts*

```
Enter the no. of students (1-50): 5
Enter the student's name: Angelia
Input your mark in Math: 90
Input your mark in Science: 85
Input your mark in Language: 85
Input your mark in Drama: 75
Input your mark in Music: 95
Input your mark in Biology: 70
Enter the student's name: Sabrina
Input your mark in Math: 95
Input your mark in Science: 90
Input your mark in Language: 95
Input your mark in Drama: 75
Input your mark in Music: 90
Input your mark in Biology: 90
Enter the student's name: Ravneet
Input your mark in Math: 100
Input your mark in Science: 80
Input your mark in Language: 80
Input your mark in Drama: 75
Input your mark in Music: 90
Input your mark in Biology: 80
```

1

2

3

```
Enter the student's name: Harshit
Input your mark in Math: 100
Input your mark in Science: 100
Input your mark in Language: 100
Input your mark in Drama: 100
Input your mark in Music: 100
Input your mark in Biology: 100
Enter the student's name: Snehal
Input your mark in Math: 100
Input your mark in Science: 80
Input your mark in Language: 70
Input your mark in Drama: 80
Input your mark in Music: 70
Input your mark in Biology: 60
Report no. 1:
```

4

5

Report printing function triggered

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REPORT PRINTING

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Print the **students name** and schools they are assigned to based on GPA calculation

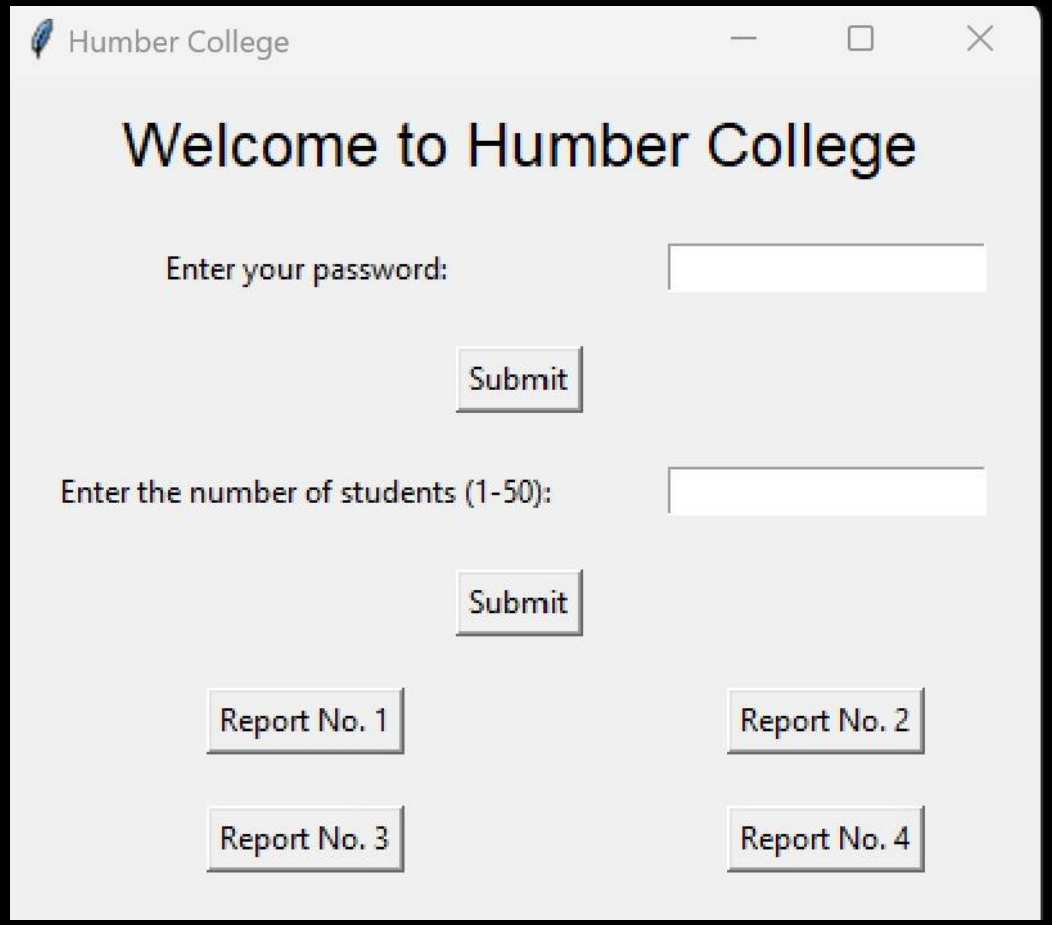
Print the breakdown of each school and the number of students accepted

Print the total number of students that are rejected

Print the **breakdown of each school** and the **number of student accepted *in percentage***

```
Enter the student's name: Ravneet
Input your mark in Math: 90
Input your mark in Science: 90
Input your mark in Language: 90
Input your mark in Drama: 90
Input your mark in Music: 90
Input your mark in Biology: 90
Enter the student's name: Harshit
Input your mark in Math: 90
Input your mark in Science: 90
Input your mark in Language: 90
Input your mark in Drama: 90
Input your mark in Music: 90
Input your mark in Biology: 90
Report No. 1:
Student no. 1 ('Ravneet', 'School of Engineering')
Student no. 2 ('Harshit', 'School of Engineering')
Report No. 2:
No. of students accepted in School of Engineering: 2
No. of students accepted in School of Business: 0
No. of students accepted in Law School: 0
Report No. 3:
No. of students who got rejected: 0
Report No. 4:
percentage of Students accepted in School of Engineering: 100.0
percentage of Students accepted in School of Business: 0.0
percentage of Students accepted in Law school: 0.0
percentage of Students Rejected: 0.0
```

SUGGESTIONS FOR HUMBER

SUGGESTIONS FOR VERSION 2.0

- DataFrames and Pandas library - For more efficient storage
- Data Validation for Grade Inputs - To avoid typos in grade entry
- GUI for Report Generation – so you don't have to code!