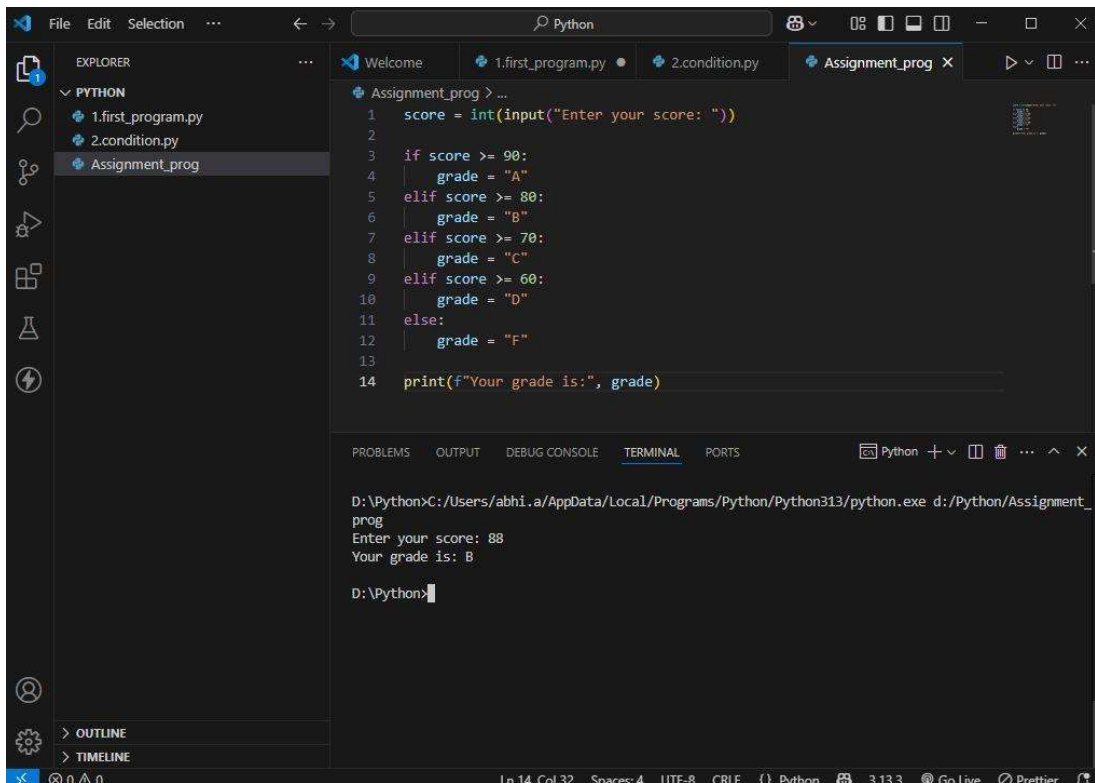


ASSIGNMENT 2 – Python (DevOps)

1. Grade Checker



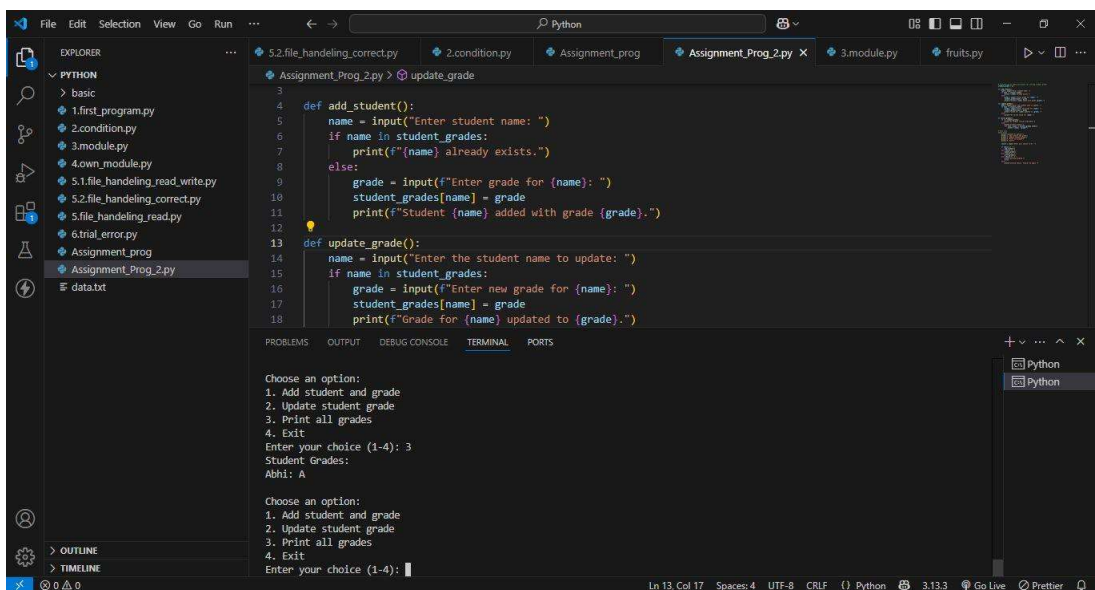
The screenshot shows the Visual Studio Code editor with a Python file named `Assignment_prog` open. The code is a simple grade checker that takes a score as input and prints the corresponding grade. The terminal window at the bottom shows the execution of the script, where the user enters a score of 88 and the program outputs "Your grade is: B".

```
1 score = int(input("Enter your score: "))
2
3 if score >= 90:
4     grade = "A"
5 elif score >= 80:
6     grade = "B"
7 elif score >= 70:
8     grade = "C"
9 elif score >= 60:
10    grade = "D"
11 else:
12    grade = "F"
13
14 print(f"Your grade is:", grade)
```

Terminal Output:

```
D:\Python>C:/Users/abhi.a/AppData/Local/Programs/Python/Python313/python.exe d:/Python/Assignment_prog
Enter your score: 88
Your grade is: B
D:\Python>
```

2. Student Grades



The screenshot shows the Visual Studio Code editor with a Python file named `Assignment_Prog_2.py` open. The code is a more complex program that allows users to add, update, or print student grades. The terminal window at the bottom shows the execution of the script, where the user enters a choice of 3 to print all grades, and the program outputs a list of student grades.

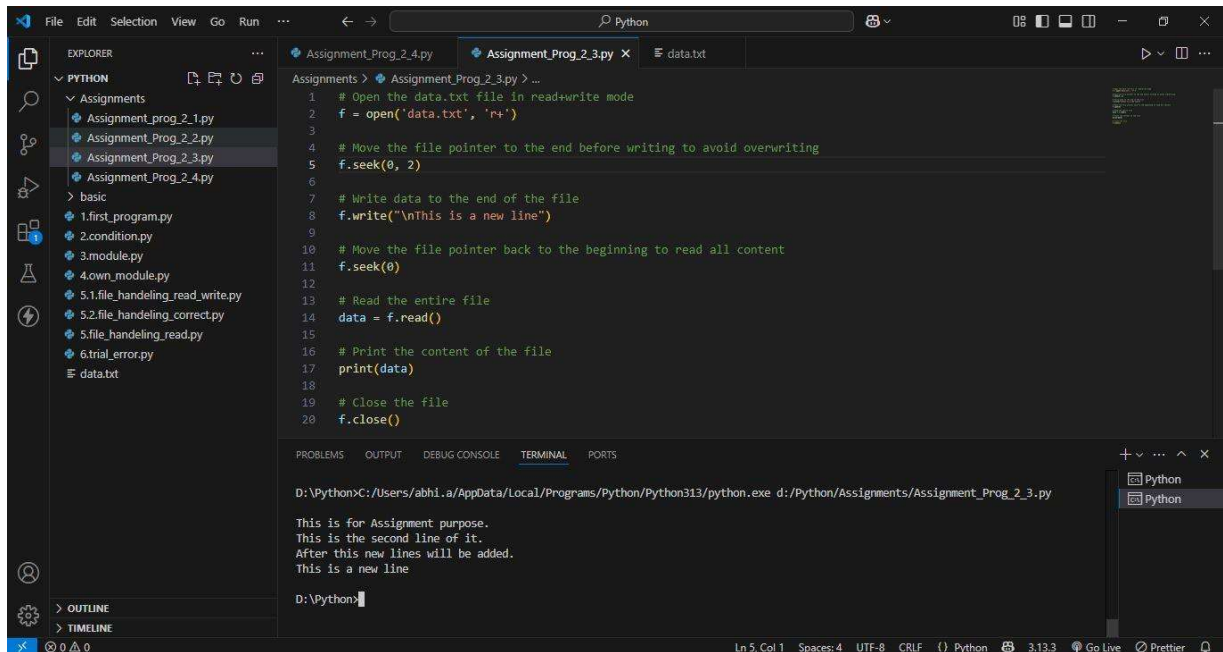
```
3
4 def add_student():
5     name = input("Enter student name: ")
6     if name in student_grades:
7         print(f"{name} already exists.")
8     else:
9         grade = input(f"Enter grade for {name}: ")
10        student_grades[name] = grade
11        print(f"Student {name} added with grade {grade}.")
12
13 def update_grade():
14     name = input("Enter the student name to update: ")
15     if name in student_grades:
16         grade = input(f"Enter new grade for {name}: ")
17         student_grades[name] = grade
18         print(f"Grade for {name} updated to {grade}.")
```

Terminal Output:

```
Choose an option:
1. Add student and grade
2. Update student grade
3. Print all grades
4. Exit
Enter your choice (1-4): 3
Student Grades:
Abhi: A

Choose an option:
1. Add student and grade
2. Update student grade
3. Print all grades
4. Exit
Enter your choice (1-4):
```

3. Write to a file and Read from a file (3rd and 4th Point is Included in single snap).



The screenshot displays the Visual Studio Code interface. The Explorer sidebar on the left shows a project structure with a 'PYTHON' folder containing several files, including 'Assignment_Prog_2_3.py'. The main editor window shows the code for 'Assignment_Prog_2_3.py', which performs the following actions:

```
1 # Open the data.txt file in read+write mode
2 f = open('data.txt', 'r+')
3
4 # Move the file pointer to the end before writing to avoid overwriting
5 f.seek(0, 2)
6
7 # Write data to the end of the file
8 f.write("\nThis is a new line")
9
10 # Move the file pointer back to the beginning to read all content
11 f.seek(0)
12
13 # Read the entire file
14 data = f.read()
15
16 # Print the content of the file
17 print(data)
18
19 # Close the file
20 f.close()
```

The TERMINAL panel at the bottom shows the command executed and its output:

```
D:\Python>C:/Users/abhi.a/AppData/Local/Programs/Python/Python313/python.exe d:/Python/Assignments/Assignment_Prog_2_3.py
This is for Assignment purpose.
This is the second line of it.
After this new lines will be added.
This is a new line
D:\Python>
```

The status bar at the bottom indicates the current line and column (Ln 5, Col 1), encoding (UTF-8), and other settings.