

The screenshot shows a code editor interface with the following details:

- EXPLORER** sidebar:
  - OPEN EDITORS**: grade\_checker.py, student\_grades.py, files\_practice.py, another\_file.py, example.txt
  - TUTED...**: another\_file.py, example.txt, files\_practice.py, grade\_checker.py, student\_grades.py
- Editor Area**:

```
grade_checker.py > ...
1 marks=int(input("Enter the marks"))
2 if marks >=90:
3     print("Grade A")
4 elif marks >=80:
5     print("Grade B")
6 elif marks >=70:
7     print("Grade C")
8 elif marks >=60:
9     print("Grade D")
10 else:
11     print("Grade F")
```
- TERMINAL** tab:

```
PS Microsoft.PowerShell.core\FileSystem::\wsl.localhost\ubuntu\home\patha\tutedude_a2> python -u "\wsl.localhost\ubuntu\home\patha\tutedude_a2\grade_checker.py"
Enter the marks80
Grade B
PS Microsoft.PowerShell.core\FileSystem::\wsl.localhost\ubuntu\home\patha\tutedude_a2>
```

The screenshot shows a code editor interface with several files listed in the Explorer sidebar. The current file, `student_grades.py`, is open in the main editor area. The code implements a menu system for managing student grades.

```
student_grades.py
1 student_grades = {}
2 while True:
3     print("\n--- Menu ---")
4     print("1. Add Student")
5     print("2. Update Grade")
6     print("3. View All Grades")
7     print("4. Exit")
8     choice = input("Enter your choice (1-4): ")
9     if choice == '1':
10         name = input("Enter student name: ")
11         grade = input("Enter student grade: ")
12         student_grades[name] = grade
13         print("Successfully added: ", name)
14     elif choice == '2':
15         name = input("Enter name to update: ")
16         if name in student_grades:
17             new_grade = input("Enter new grade: ")
18             student_grades[name] = new_grade
19             print("Grade updated for: ", name)
20         else:
21             print("Student not found.")
22     elif choice == '3':
23         print("\n--- Student Records ---")
24         print(student_grades)
25     elif choice == '4':
26         print("Exiting program.")
27         break
28     else:
29         print("Invalid choice. Please try again.")
```

The terminal below the editor shows the execution of the script. It prompts for a choice, adds a student named 'irfan' with grade 'B', and then displays the updated student records.

```
4. Exit
Enter your choice (1-4): 1
Enter student name: irfan
Enter student grade: B
Successfully added: irfan

--- Menu ---
1. Add Student
2. Update Grade
3. View All Grades
4. Exit
Enter your choice (1-4):
```

The screenshot shows the Visual Studio Code interface with the following details:

- EXPLORER**: Shows files in the workspace:
  - OPEN EDIT... (dropdown)
  - grade\_checker.py
  - student\_grades.py
  - files\_practice.py (selected)
  - another\_file.py
  - example.txt

Below this, under **TUTEDUDE\_A2**, are:
  - another\_file.py
  - example.txt
  - files\_practice.py (highlighted)
  - grade\_checker.py
  - student\_grades.py
  - tempCodeRunnerFile.py
- CODE**: The **files\_practice.py** file is open, displaying the following Python code:

```
file = open("example.txt", "w")
file.write("Hello! This is a test file.\n")
file.write("We are learning file handling in Python.")
file.close()
print("File created and written successfully.")
```
- TERMINAL**: Shows the output of a Python command:

```
PS Microsoft.PowerShell.Core\FileSystem::\ws1=localhost\Ubuntu\home\patha\tutedude_a2> python -u "\\\ws1.localhost\\Ubuntu\\home\\patha\\tutedude_a2\\files_practice.py"
File created and written successfully.
```

The screenshot shows the Visual Studio Code interface with the following details:

- EXPLORER**: Shows files in the workspace, including `grade_checker.py`, `student_grades.py`, `files_practice.py`, `another_file.py` (selected), and `example.txt`.
- OPEN EDITORS**: Shows the content of `another_file.py`:

```
1  try:
2      file = open("example.txt", "r")
3      content = file.read()
4      print("--- File Content ---")
5      print(content)
6      file.close()
7 except FileNotFoundError:
8     print("Error: The file 'example.txt' was not found. Please run script #3 first.")
```

- TUTORIAL\_A2**: Shows files: `another_file.py`, `example.txt`, `files_practice.py`, `grade_checker.py`, `student_grades.py`, and `tempCodeRunnerFile.py`.
- TERMINAL**: Shows the output of running `python another_file.py` in WSL:

```
PS Microsoft.PowerShell.Core\FileSystem::\wsl\localhost\Ubuntu\home\patha\tutedude_a2> python -u "\wsl\localhost\Ubuntu\home\patha\tutedude_a2\another_file.py"
--- File Content ---
Hello! This is a test file.
We are learning file handling in Python.
```

```
patha@irfan:~/tutedude_a2$ python3 grade_checker.py
Enter the marks: 90
Grade A
patha@irfan:~/tutedude_a2$ python3 student_grades.py

--- Menu ---
1. Add Student
2. Update Grade
3. View All Grades
4. Exit
Enter your choice (1-4): 1
Enter student name: irfan khan
Enter student grade: A
Successfully added: irfan khan

--- Menu ---
1. Add Student
2. Update Grade
3. View All Grades
4. Exit
Enter your choice (1-4): 2
Enter name to update: pathan irfan khan
Student not found.

--- Menu ---
1. Add Student
2. Update Grade
3. View All Grades
4. Exit
Enter your choice (1-4): 4
Exiting program.
patha@irfan:~/tutedude_a2$ python3 files_practice.py
File created and written successfully.
patha@irfan:~/tutedude_a2$ python3 another_file.py
--- File Content ---
Hello! This is a test file.
We are learning file handling in Python.
patha@irfan:~/tutedude_a2$
```