1. Grade Checker

Take a score as input and print the grade based on the following:

90+ : "A"

80-89 : "B"

70-79 : "C"

60-69 : "D"

Below 60 : "F"

here we used a basic if else statement to carry out marks and all.

# Grade Checker

score = int(input("Enter the score: "))

if score >= 90:

grade = "A"

elif score >= 80:

grade = "B"

elif score >= 70:

grade = "C"

elif score >= 60:

grade = "D"

else:

grade = "F"

print("Grade:", grade)

2 Student Grades

Create a dictionary where the keys are student names and the values are their grades. Allow the user to:

Add a new student and grade.

Update an existing student’s grade.

Print all student grades.

# Student Grades Dictionary

grades = {}

while True:

print("\nOptions:")

print("1. Add student")

print("2. Update grade")

print("3. View all grades")

print("4. Exit")

choice = input("Enter choice (1-4): ")

if choice == '1':

name = input("Enter student name: ")

grade = input("Enter student grade: ")

grades[name] = grade

print(f"{name} added.")

elif choice == '2':

name = input("Enter student name to update: ")

if name in grades:

grade = input("Enter new grade: ")

grades[name] = grade

print(f"{name}'s grade updated.")

else:

print("Student not found.")

elif choice == '3':

for student, grade in grades.items():

print(f"{student}: {grade}")

elif choice == '4':

break

else:

print("Invalid choice.")

Explanation: Dictionary is used to add/update student grades. Loops and conditionals handle user input.

3.Write to a File

Write a program to create a text file and write some content to it.

Using file functions like write and open

with open("sample.txt", "w") as file:

file.write("This is a sample text written to the file.\n")

file.write("Python makes file handling easy!")

**Explanation:** Opens (or creates) a file in write mode and writes two lines.

4. Read from a File

We used open in read mode and file.read to read and print to display.

# Reading from a File

with open("sample.txt", "r") as file:

content = file.read()

print("File content:\n", content)

**Explanation:** Opens file in read mode and prints contents.