1. score = int(input("Enter your score: "))

if score >= 90:

print("Grade: A")

elif score >= 80:

print("Grade: B")

elif score >= 70:

print("Grade: C")

elif score >= 60:

print("Grade: D")

else:

print("Grade: F")

# if-elif-else statement to check the range of marks entered by the user

1. students = {}

while True:

print("\nOptions:")

print("1. Add student")

print("2. Update grade")

print("3. Print all")

choice = input("Enter your choice: ")

if choice == "1":

name = input("Enter student name: ")

grade = input("Enter grade: ")

students[name] = grade

print(f"{name} added.")

elif choice == "2":

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

if name in students:

grade = input("Enter new grade: ")

students[name] = grade

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

else:

print("Student not found.")

elif choice == "3":

print("\nStudent Grades:")

for name, grade in students.items():

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

# used a dictionary to store student names and grades using if else and additionally used a while loop.

1. file = open("myfile.txt", "w")

file.write("Hello! This is a sample text file.\nWelcome to the Python file handling demo.")

file.close()

# used open() with "w" mode to write to the file, write() function adds content to the file, used close() to save and close the file properly.

1. file = open("myfile.txt", "r")

content = file.read()

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

file.close()

# opened the file in read mode ("r") using open(), used read() to read the entire content and printed it, the file was closed using close().