Python Task Report

# 1. Grade Checker

Take a score as input and print the grade based on the following criteria:  
- 90 and above: Grade A  
- 80 to 89: Grade B  
- 70 to 79: Grade C  
- 60 to 69: Grade D  
- Below 60: Grade F  
  
Used: Basic `if-else` statements.  
  
Example Code:

score = int(input("Enter the 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")

# 2. Student Grades (Using Dictionary)

Create a dictionary to store student names and grades. Allow user to:  
- Add a new student and grade  
- Update existing student’s grade  
- Print all student grades  
  
Used: Dictionary and conditional logic.  
  
Example Code:

students = {}  
  
while True:  
 print("\n1. Add Student\n2. Update Grade\n3. Print All\n4. Exit")  
 choice = input("Enter choice: ")  
  
 if choice == "1":  
 name = input("Enter student name: ")  
 grade = input("Enter grade: ")  
 students[name] = grade  
 elif choice == "2":  
 name = input("Enter student name to update: ")  
 if name in students:  
 grade = input("Enter new grade: ")  
 students[name] = grade  
 else:  
 print("Student not found.")  
 elif choice == "3":  
 for name, grade in students.items():  
 print(f"{name}: {grade}")  
 elif choice == "4":  
 break  
 else:  
 print("Invalid choice")

# 3. Write to a File

Program to create a file and write some content into it.  
  
Used: `open()` and `write()` functions.  
  
Example Code:

with open("output.txt", "w") as file:  
 file.write("Hello, this is a sample file.\nWelcome to Python file handling.")

# 4. Read from a File

Program to read content from a file and display it.  
  
Used: `open()` in read mode and `read()` function.  
  
Example Code:

with open("output.txt", "r") as file:  
 content = file.read()  
 print(content)