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.

⇨

```
score = int(input("Enter your 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(f"Your grade is: {grade}")
```

⇨ **OUTPUT**

```
PS C:\Users\User\Downloads\Assignment\DevOps\DevOps\Python\Assigment> py .\Grade.py
Enter your score: 80
Your grade is: B
PS C:\Users\User\Downloads\Assignment\DevOps\DevOps\Python\Assigment> py .\Grade.py
Enter your score: 0
Your grade is: F
PS C:\Users\User\Downloads\Assignment\DevOps\DevOps\Python\Assigment>
```

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.

Used dictionary and basic operations. Using if else:

⇨

```
students = {}

while True:
    print("\nChoose an option:")
    print("1. Add a new student and grade")
    print("2. Update an existing student's grade")
    print("3. Print all student grades")
    print("4. Exit")
    choice = input("Enter your choice (1-4): ")

    if choice == "1":
        name = input("Enter student name: ")
        grade = input("Enter student grade: ")
        if name in students:
            print(f"{name} already exists.")
        else:
            students[name] = grade
            print(f"Added {name} with grade {grade}.")
    elif choice == "2":
        name = input("Enter student name to update: ")
        if name in students:
            grade = input("Enter new grade: ")
            students[name] = grade
            print(f"Updated {name}'s grade to {grade}.")
        else:
            print(f"{name} not found.")
    elif choice == "3":
        if not students:
            print("No students found.")
        else:
            print("Student Grades:")
            for name, grade in students.items():
                print(f"{name}: {grade}")
    elif choice == "4":
        print("Exiting program.")
```

```
        break
    else:
        print("Invalid choice. Please try again.")
```

⇨ **OUTPUT**

```
PS C:\Users\User\Downloads\Assignment\DevOps\DevOps\Python\Assigment> py .\students.py

Choose an option:
1. Add a new student and grade
2. Update an existing student's grade
3. Print all student grades
4. Exit
Enter your choice (1-4): 1
Enter student name: Jemish
Enter student grade: 85
Added Jemish with grade 85.

Choose an option:
1. Add a new student and grade
2. Update an existing student's grade
3. Print all student grades
4. Exit
Enter your choice (1-4): 3
Student Grades:
Jemish: 85

Choose an option:
1. Add a new student and grade
2. Update an existing student's grade
3. Print all student grades
4. Exit
Enter your choice (1-4): 1
Enter student name: Jay
Enter student grade: 95
Added Jay with grade 95.

Choose an option:
1. Add a new student and grade
2. Update an existing student's grade
3. Print all student grades
4. Exit
Enter your choice (1-4): 2
Enter student name to update: Jemish
Enter new grade: 65
Updated Jemish's grade to 65.

Choose an option:
1. Add a new student and grade
2. Update an existing student's grade
3. Print all student grades
4. Exit
Enter your choice (1-4): 3
Student Grades:
Jemish: 65
Jay: 95

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

Write to a File

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

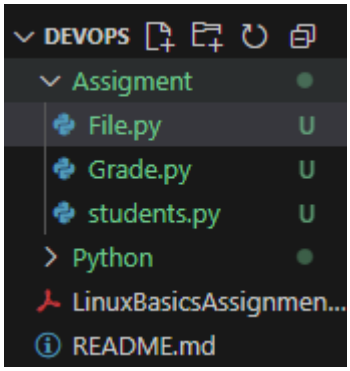
Using file functions like write and open.

⇨

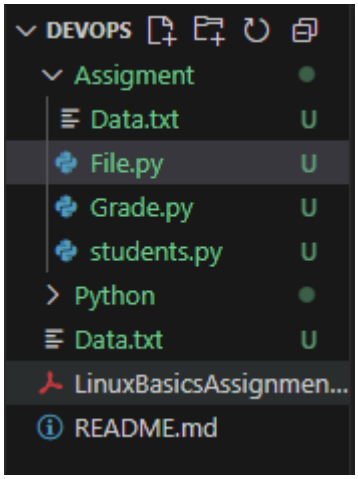
```
with open("Data.txt", "w") as f:
    f.write("Hello! This is Important data Store Through Python File.\n")
    f.write("We are Writing From File handling\n")

print("File written successfully.")
```

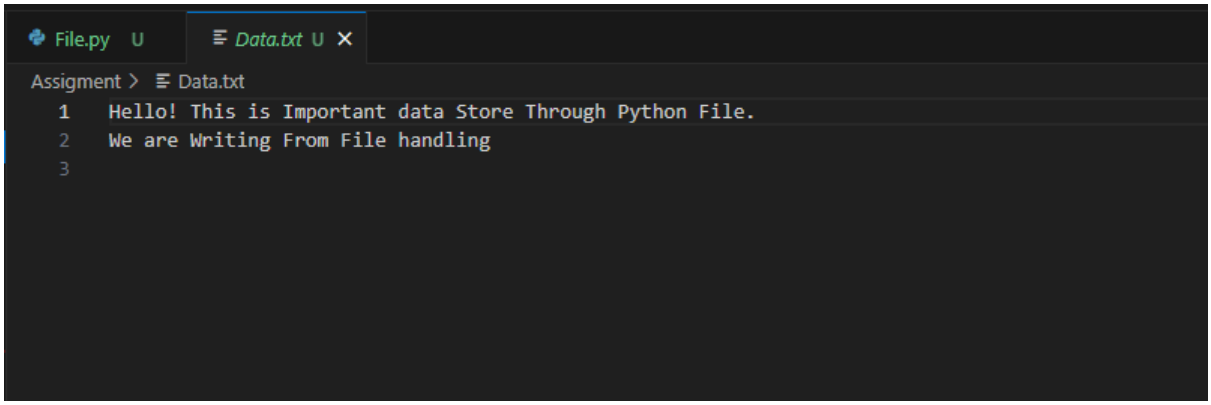
⇨ **OUTPUT**

Before



After





Read from a File

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

⇨

```
f = open("Data.txt", "r")
data = f.read()
print("Read Data From Data.txt File : \n",data)
f.close()
```

⇨ **OUTPUT**