1. Grade Checker

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

90+ : "A"

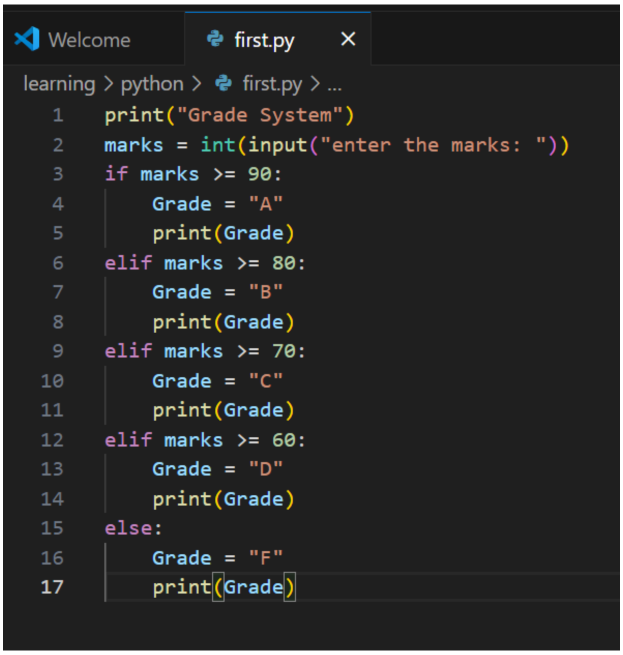
80-89 : "B"

70-79 : "C"

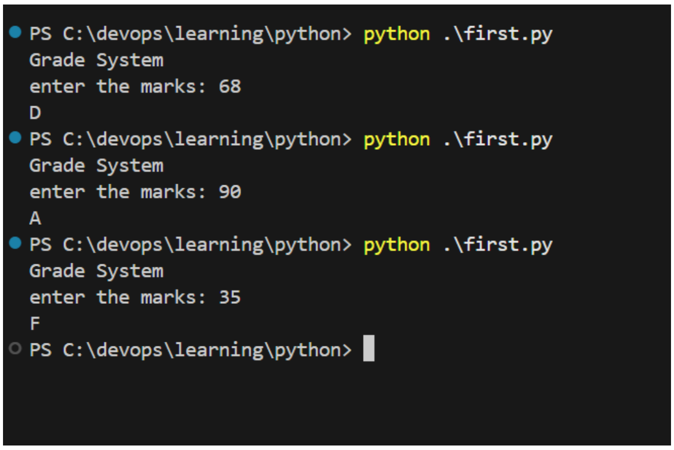
60-69 : "D"

Below 60 : "F"

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



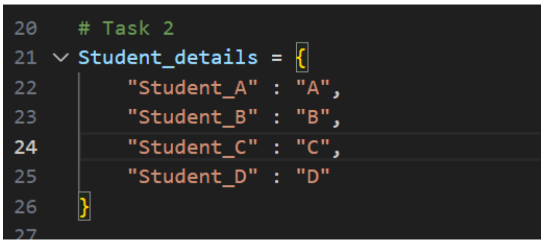
```python
print("Grade System")
marks = int(input("enter the marks: "))
if marks >= 90:
    Grade = "A"
    print(Grade)
elif marks >= 80:
    Grade = "B"
    print(Grade)
elif marks >= 70:
    Grade = "C"
    print(Grade)
elif marks >= 60:
    Grade = "D"
    print(Grade)
else:
    Grade = "F"
    print(Grade)
```



```
PS C:\devops\learning\python> python .\first.py
Grade System
enter the marks: 68
D
PS C:\devops\learning\python> python .\first.py
Grade System
enter the marks: 90
A
PS C:\devops\learning\python> python .\first.py
Grade System
enter the marks: 35
F
PS C:\devops\learning\python>
```

2 Student Grades

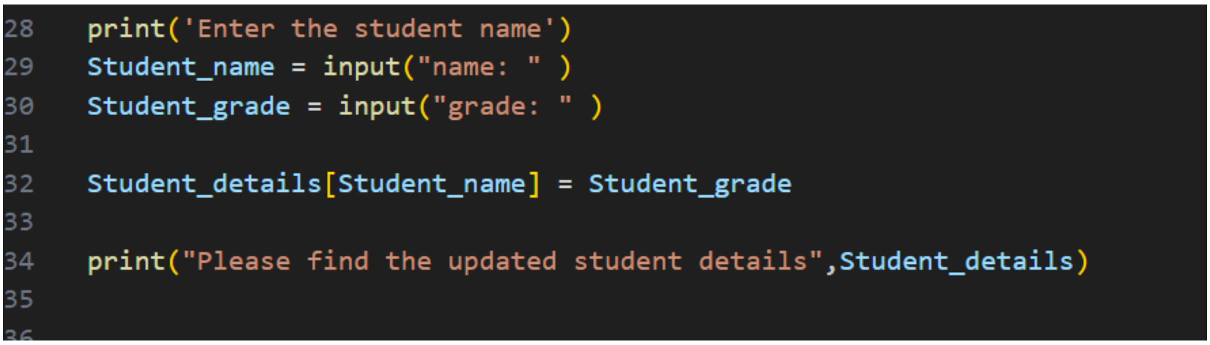
Create a dictionary where the keys are student names and the values are their grades.



```python
# Task 2
Student_details = {
    "Student_A" : "A",
    "Student_B" : "B",
    "Student_C" : "C",
    "Student_D" : "D"
}
```

Allow the user to:

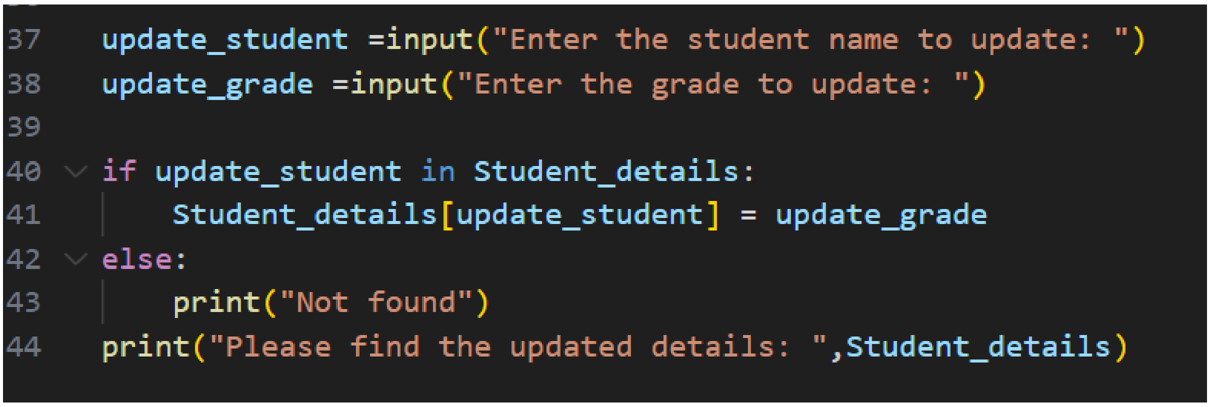
Add a new student and grade.



```
print('Enter the student name')
Student_name = input("name: " )
Student_grade = input("grade: " )

Student_details[Student_name] = Student_grade

print("Please find the updated student details",Student_details)

```

Update an existing student's grade.

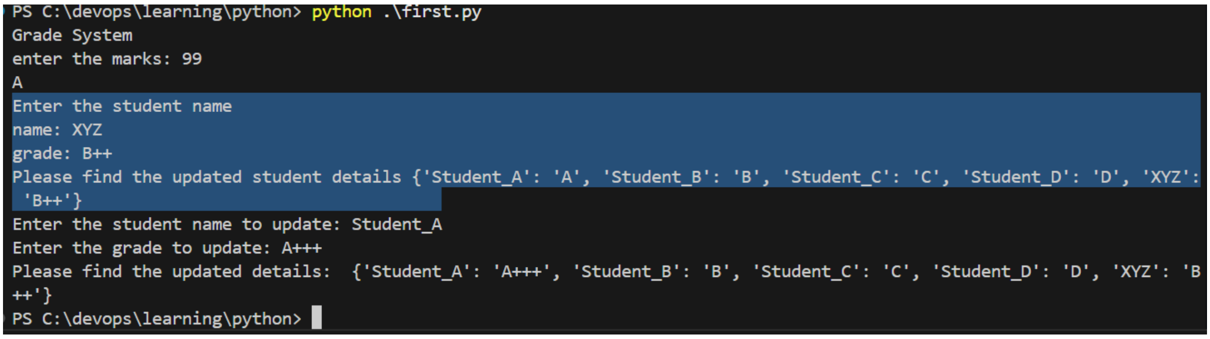
Print all student grades.



```
update_student =input("Enter the student name to update: ")
update_grade =input("Enter the grade to update: ")

if update_student in Student_details:
    Student_details[update_student] = update_grade
else:
    print("Not found")
print("Please find the updated details: ",Student_details)
```

Used dictionary and basic operations. Using if else:

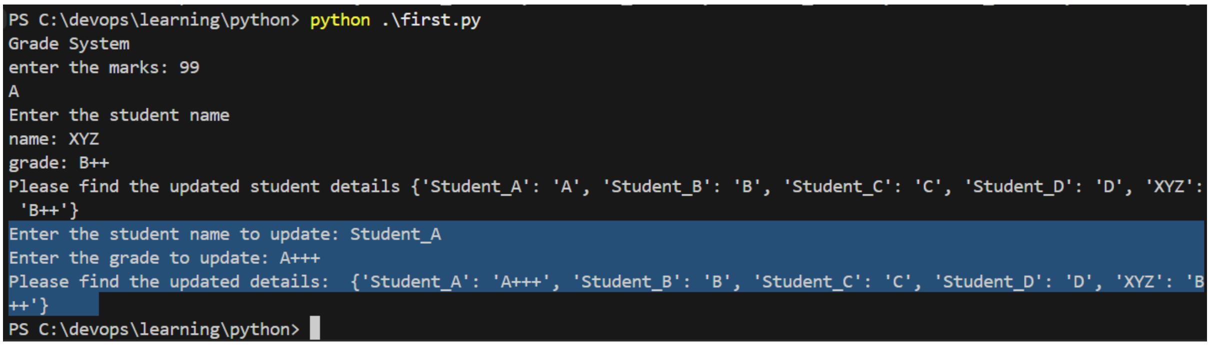
Below higlighted output to add a new student in the list:
e.g. user enter's a student name: "XYZ" & the grade is "B++"
in the below updated student details: you can see the newly added student details as well.



```
PS C:\devops\learning\python> python .\first.py
Grade System
enter the marks: 99
A
Enter the student name
name: XYZ
grade: B++
Please find the updated student details {'Student_A': 'A', 'Student_B': 'B', 'Student_C': 'C', 'Student_D': 'D', 'XYZ':
 'B++'}
Enter the student name to update: Student_A
Enter the grade to update: A+++
Please find the updated details:  {'Student_A': 'A+++', 'Student_B': 'B', 'Student_C': 'C', 'Student_D': 'D', 'XYZ': 'B
++'}
PS C:\devops\learning\python> 
```

Below higlighted output to update a new student in the list:
e.g. user enter's a student name: "Student_A" & the grade is "A+++"
in the updated student details: you can see the updated grade for the "Student_A"

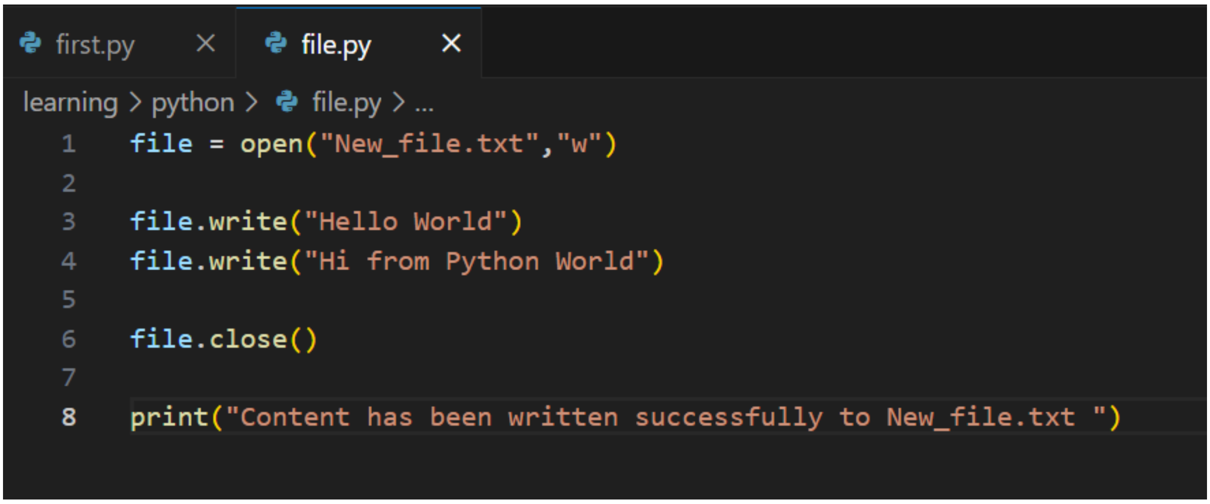
details.



```
PS C:\devops\learning\python> python .\first.py
Grade System
enter the marks: 99
A
Enter the student name
name: XYZ
grade: B++
Please find the updated student details {'Student_A': 'A', 'Student_B': 'B', 'Student_C': 'C', 'Student_D': 'D', 'XYZ':
 'B++'}
Enter the student name to update: Student_A
Enter the grade to update: A+++
Please find the updated details:  {'Student_A': 'A+++', 'Student_B': 'B', 'Student_C': 'C', 'Student_D': 'D', 'XYZ': 'B
++'}
PS C:\devops\learning\python> 
```

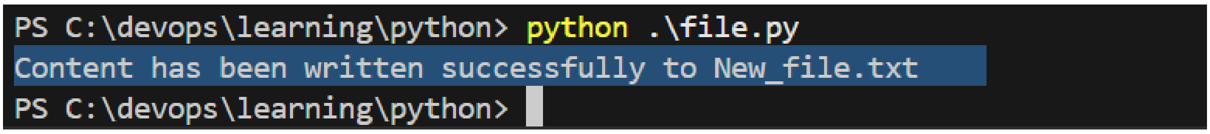
3.Write to a File

Write a program to create a text file and write some content to it.
Using file functions like write and open.



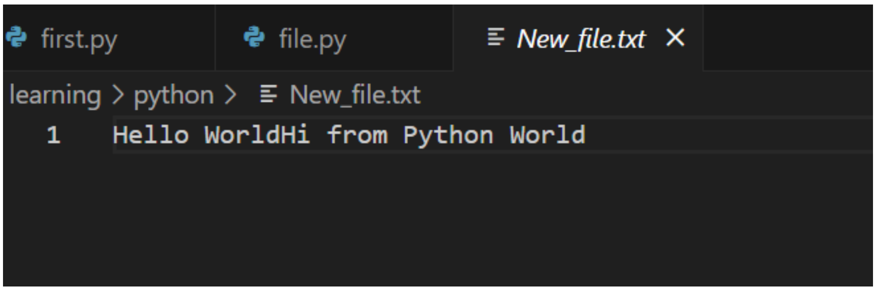
```python
file = open("New_file.txt","w")

file.write("Hello World")
file.write("Hi from Python World")

file.close()

print("Content has been written successfully to New_file.txt ")
```

Output:



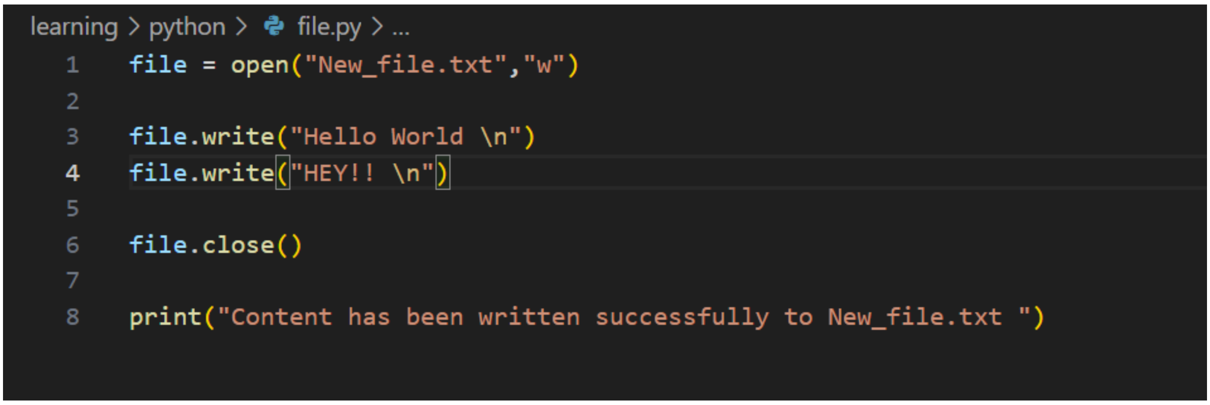
```
PS C:\devops\learning\python> python .\file.py
Content has been written successfully to New_file.txt
PS C:\devops\learning\python> 
```

File created successfully and content also written in the newly created file.

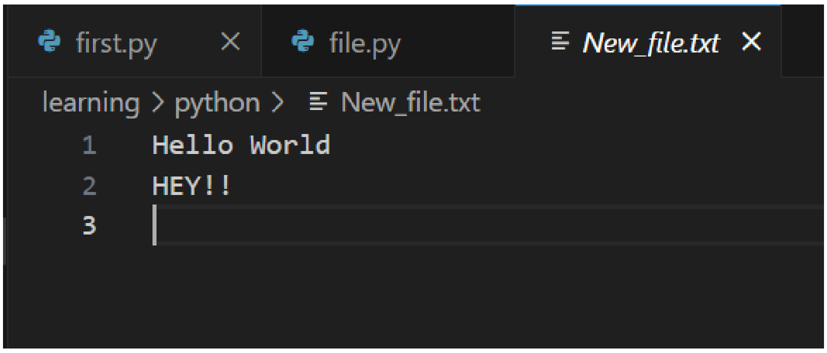


```
Hello WorldHi from Python World
```

After adding '\n' in the code.



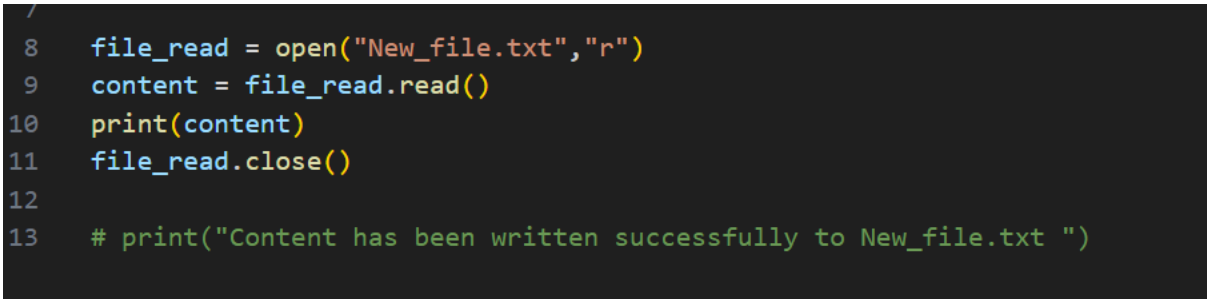
```python
file = open("New_file.txt","w")

file.write("Hello World \n")
file.write("HEY!! \n")

file.close()

print("Content has been written successfully to New_file.txt ")
```



```
Hello World
HEY!!

```

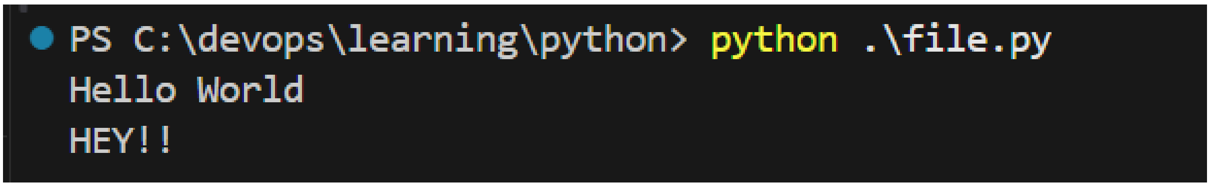
4. Read from a File

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



```python
file_read = open("New_file.txt","r")
content = file_read.read()
print(content)
file_read.close()

# print("Content has been written successfully to New_file.txt ")
```

Output:



```
PS C:\devops\learning\python> python .\file.py
Hello World
HEY!!
```