

1. Grade Checker

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

90+ : "A"

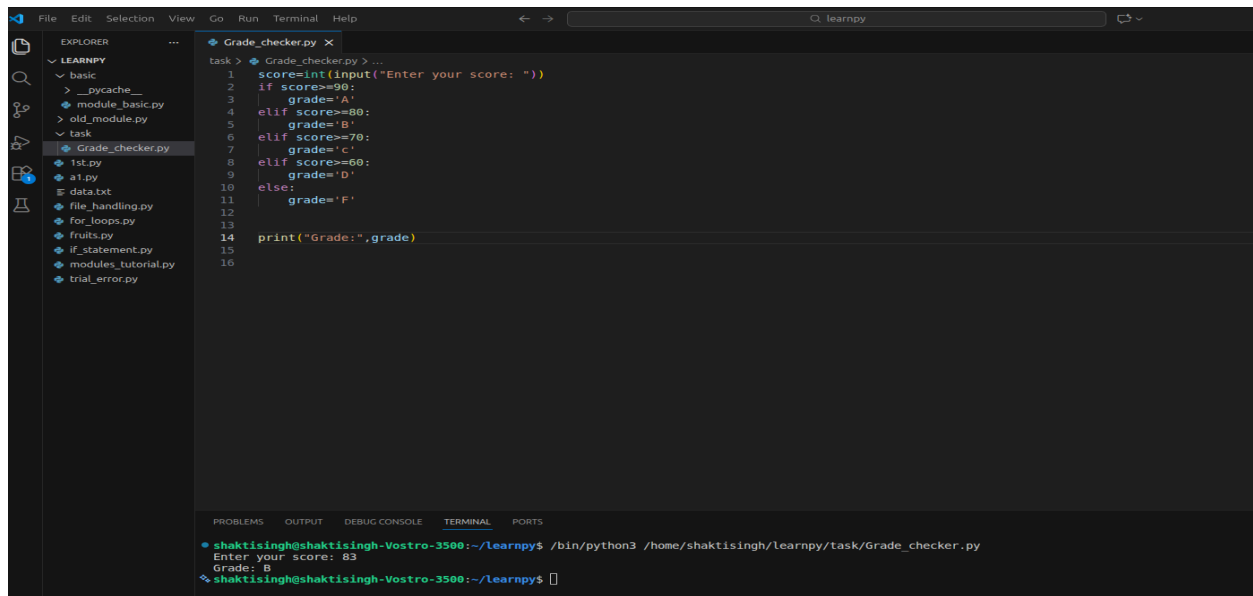
80-89 : "B"

70-79 : "C"

60-69 : "D"

Below 60 : "F"

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



```
File Edit Selection View Go Run Terminal Help
Grade_checker.py x
1 score=int(input("Enter your score: "))
2 if score==90:
3     grade="A"
4 elif score==80:
5     grade="B"
6 elif score==70:
7     grade="C"
8 elif score==60:
9     grade="D"
10 else:
11     grade="F"
12
13
14 print("Grade:",grade)
15
16

shaktisingh@shaktisingh-Vostro-3500:~/learnpy$ /bin/python3 /home/shaktisingh/learnpy/task/Grade_checker.py
Enter your score: 83
Grade: B
shaktisingh@shaktisingh-Vostro-3500:~/learnpy$
```

2 Student Grades

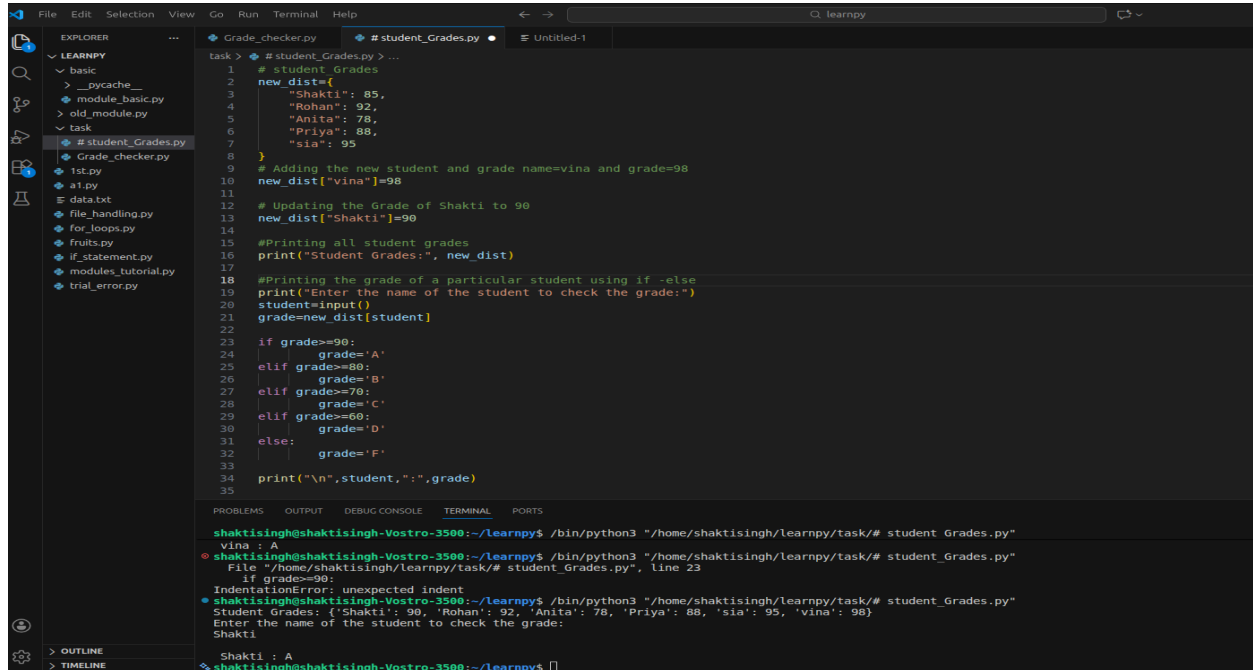
Create a dictionary where the keys are student names and the values are their grades. Allow the user to:

Add a new student and grade.

Update an existing student's grade.

Print all student grades.

Used dictionary and basic operations. Using if else:



```
task > # student_Grades.py > ...
1 # student_Grades
2 new_dist={
3     "Shakti": 85,
4     "Rohan": 92,
5     "Anita": 78,
6     "Priya": 88,
7     "sia": 95
8 }
9 # Adding the new student and grade name=vina and grade=98
10 new_dist["vina"]=98
11
12 # Updating the Grade of Shakti to 90
13 new_dist["Shakti"]=90
14
15 #Printing all student grades
16 print("Student Grades:", new_dist)
17
18 #Printing the grade of a particular student using if -else
19 print("Enter the name of the student to check the grade:")
20 student=input()
21 grade=new_dist[student]
22
23 if grade==90:
24     grade='A'
25 elif grade==80:
26     grade='B'
27 elif grade==70:
28     grade='C'
29 elif grade==60:
30     grade='D'
31 else:
32     grade='F'
33
34 print("\n",student,":",grade)
35
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
shaktisingh@shaktisingh-Vostro-3500:~/learnpy$ /bin/python3 "/home/shaktisingh/learnpy/task/# student_Grades.py"
vina : A
shaktisingh@shaktisingh-Vostro-3500:~/learnpy$ /bin/python3 "/home/shaktisingh/learnpy/task/# student_Grades.py"
File "/home/shaktisingh/learnpy/task/# student_Grades.py", line 23
    if grade==90:
IndentationError: unexpected indent
shaktisingh@shaktisingh-Vostro-3500:~/learnpy$ /bin/python3 "/home/shaktisingh/learnpy/task/# student_Grades.py"
Student Grades: {'Shakti': 90, 'Rohan': 92, 'Anita': 78, 'Priya': 88, 'sia': 95, 'vina': 98}
Enter the name of the student to check the grade:
Shakti
Shakti : A
shaktisingh@shaktisingh-Vostro-3500:~/learnpy$
```

3. Write to a File

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

Using file function like write and open.

The screenshot shows the VS Code editor with the file.py file open. The Explorer sidebar on the left shows a project named 'LEARNPY' with a folder 'task' containing several Python files, including file.py. The file.py file contains the following code:

```
1 #file
2 file=open("data.txt", "w")
3 file.write("Hello, World!")
4 file.write("\n Learning the Devops and Python")
5 file.close()
6
7 file=open("data.txt", "r")
8 data=file.read()
9
10 print("file data is :",data)
11 file.close()
12
13 print("file data is :")
14 if file.closed:
15     print("File is closed")
16 else:
17     print("File is open")
18
```

The terminal at the bottom shows the execution of the file.py script:

```
shaktisingh@shaktisingh-Vostro-3500:~/learnpy$ /bin/python3 /home/shaktisingh/learnpy/task/file.py
file data is : Hello, World!
Learning the Devops and Python
file data is :
file is closed
shaktisingh@shaktisingh-Vostro-3500:~/learnpy$
```

4. Read from a File

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

The screenshot shows the VS Code editor with the #Read_file.py file open. The Explorer sidebar on the left shows the same project structure as the previous screenshot, but with #Read_file.py selected. The #Read_file.py file contains the following code:

```
1 #Read_file
2 file=open("data.txt", "r")
3 data=file.read()
4 print("file data is :",data)
5 file.close()
6
7
```

The terminal at the bottom shows the execution of the #Read_file.py script:

```
shaktisingh@shaktisingh-Vostro-3500:~/learnpy$ /bin/python3 /home/shaktisingh/learnpy/task/#Read_file.py
file data is : Hello, World!
Learning the Devops and Python
file data is : Hello, World!
Learning the Devops and Python
File is closed
shaktisingh@shaktisingh-Vostro-3500:~/learnpy$
```