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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.

```
marks=int(input("Enter your marks "))

if marks >= 90 and marks <= 100:
    grade = "A"
elif marks >= 80 and marks <= 89:
    grade = "B"
elif marks >= 70 and marks <= 79:
    grade = "C"
elif marks >= 60 and marks <= 69:
    grade = "D"
elif marks < 60:
    grade = "F"
else:
    grade = "Invalid Input"

print(grade)
```

```
Assignments > 🐍 marks_basic.py > ...
 1    marks=int(input("Enter your marks "))
 2
 3    if marks >= 90 and marks <= 100:
 4        grade = "A"
 5    elif marks >= 80 and marks <= 89:
 6        grade = "B"
 7    elif marks >= 70 and marks <= 79:
 8        grade = "C"
 9    elif marks >= 60 and marks <= 69:
10        grade = "D"
11    elif marks < 60:
12        grade = "F"
13    else:
14        grade = "Invalid Input"
15
16    print(grade)
17
```
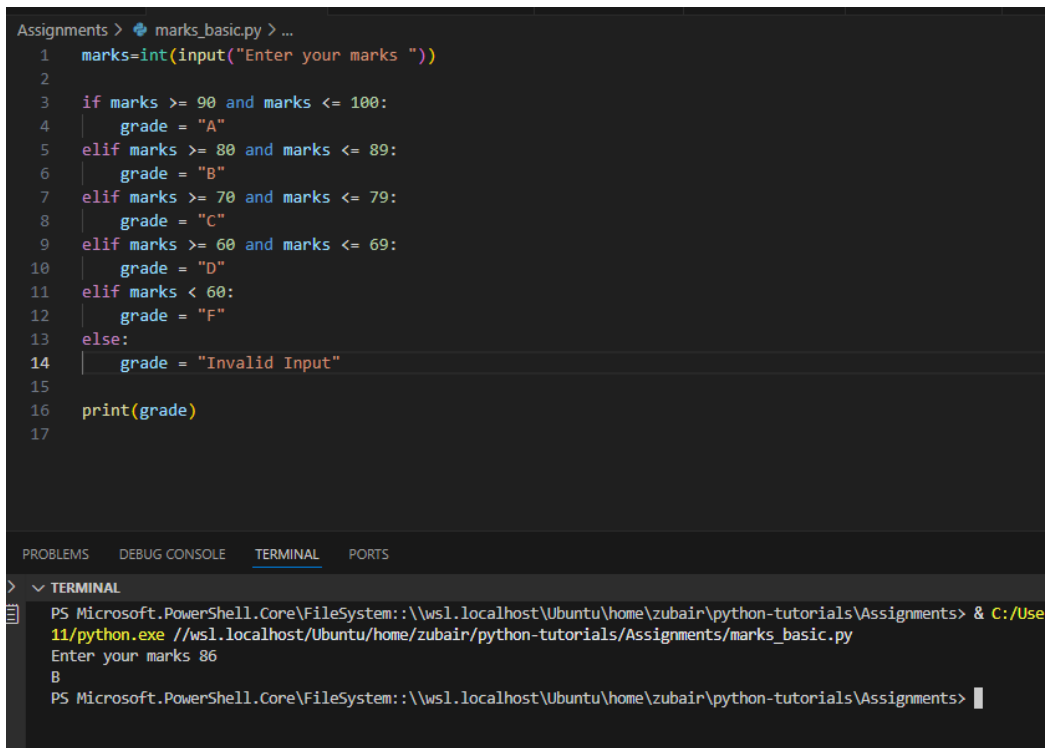
```
PROBLEMS   DEBUG CONSOLE   TERMINAL   PORTS

∨ TERMINAL
  PS Microsoft.PowerShell.Core\FileSystem::\\wsl.localhost\Ubuntu\home\zubair\python-tutorials\Assignments> & C:/Use
  11/python.exe //wsl.localhost/Ubuntu/home/zubair/python-tutorials/Assignments/marks_basic.py
  Enter your marks 86
  B
  PS Microsoft.PowerShell.Core\FileSystem::\\wsl.localhost\Ubuntu\home\zubair\python-tutorials\Assignments> |
```

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:

```python
grades= {'Ron':'A', 'Amy':'C'}
action = input("'Add', 'Update' or 'Print'\n")

if action == 'Add':
    name=input("Student name: ")
    grade=input("Grade: ")
    grades[name]=grade
    print("Added!")
    print(grades)

elif action == 'Update':
    name=input("Student name: ")
    if name in grades:
        grade=input("Enter Grade: ")
        grades[name]=grade
        print("Updated")
        print(grades)
    else:
        print("Student not found")

elif action == 'Print':
    print(grades)

else:
    print("Invalid Entry")
```

```
Assignments > ⬦ student_grades.py > ...
  1    grades= {'Ron':'A', 'Amy':'C'}
  2    action = input("'Add', 'Update' or 'Print'\n")
  3
  4    if action == 'Add':
  5        name=input("Student name: ")
  6        grade=input("Grade: ")
  7        grades[name]=grade
  8        print("Added!")
  9        print(grades)
 10
 11    elif action == 'Update':
 12        name=input("Student name: ")
 13        if name in grades:
 14            grade=input("Enter Grade: ")
 15            grades[name]=grade
 16            print("Updated")
 17            print(grades)
 18        else:
 19            print("Student not found")
 20
 21    elif action == 'Print':
 22        print(grades)
 23
 24    else:
 25        print("Invalid Entry")
```

```
PROBLEMS   DEBUG CONSOLE   TERMINAL   PORTS

> ∨ TERMINAL

PS Microsoft.PowerShell.Core\FileSystem::\\wsl.localhost\Ubuntu\home\zubair\python-tutorials\Assignments> python student_grades.py
'Add', 'Update' or 'Print'
Add
Student name: Josh
Grade: D
Added!
{'Ron': 'A', 'Amy': 'C', 'Josh': 'D'}
PS Microsoft.PowerShell.Core\FileSystem::\\wsl.localhost\Ubuntu\home\zubair\python-tutorials\Assignments> python student_grades.py
'Add', 'Update' or 'Print'
Update
Student name: Amy
Enter Grade: B
Updated
{'Ron': 'A', 'Amy': 'B'}
PS Microsoft.PowerShell.Core\FileSystem::\\wsl.localhost\Ubuntu\home\zubair\python-tutorials\Assignments> python student_grades.py
'Add', 'Update' or 'Print'
Print
{'Ron': 'A', 'Amy': 'C'}
PS Microsoft.PowerShell.Core\FileSystem::\\wsl.localhost\Ubuntu\home\zubair\python-tutorials\Assignments>
```

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.

data= open('file_2.txt','w')

data.write("Hello Professor! \n")
data.write("I hope this is the correct answer to this question. \n")
data.close()

print("File written successfully")

```python
data= open('file_2.txt','w')

data.write("Hello Professor! \n")
data.write("I hope this is the correct answer to the question. \n")
data.close()

print("File written successfully")
```

```
PS Microsoft.PowerShell.Core\FileSystem::\\wsl.localhost\Ubuntu\home\zubair\python-tutorials\Assignments> & C:/User
11/python.exe //wsl.localhost/Ubuntu/home/zubair/python-tutorials/Assignments/files_prac.py
File written successfully
PS Microsoft.PowerShell.Core\FileSystem::\\wsl.localhost\Ubuntu\home\zubair\python-tutorials\Assignments>
```

4. Read from a File
We used open in read mode and file.read to read and print to display.

data= open('file_1.txt','r')

f = data.read()
print(f)
data.close()


```python
data= open('file_1.txt','r')

f = data.read()
print(f)
data.close()
```

```
PS Microsoft.PowerShell.Core\FileSystem::\\wsl.localhost\Ubuntu\home\zubair\python-tutorials\Assignments> & C:/Users
11/python.exe //wsl.localhost/Ubuntu/home/zubair/python-tutorials/Assignments/read_file.py
This is a Practice file for Assignment purpose!

2026 is the year of Fifa World Cup!

The World cup would be hosted by three countries: US, Mexico and Canada

PS Microsoft.PowerShell.Core\FileSystem::\\wsl.localhost\Ubuntu\home\zubair\python-tutorials\Assignments>
```

Submission Guidelines -: Attach Screenshots or command along with explanation and submit in doc(google doc or microsoft doc) format or share github link