PYTHON LAB:

Lab Cake

Lab-cake2: grade-calculator.py

Write a program that will ask a student for a their grade in 5 subjects.

Calculate your average grade and print grade from A-E.
A > 90
B > 80
C > 70
D > 60
E === Failed ☹

Display on the screen: Provide the screenshot and github link. Submit your homework in your github account as well. Create a folder Python-codes

SOLUTION:

PYTHON_LABS > grade_calculator.py > ...

```python
#Program for grade calculator
name = str(input("Please provide the student name:\t"))
level = str(input("Please enter the student class: \t"))
grade1 = float(input("Please enter your grade score for English:\t"))
grade2 = float(input("Please enter your grade score for Mathematic:\t"))
grade3 = float(input("Please enter your grade score for Labs:\t"))
grade4 = float(input("Please enter your grade score for Terraform:\t"))
grade5 = float(input("Please enter your grade score for Python:\t"))
# Grade adjectives
A = "Excellent"
B = "Good"
C = "Average"
D = "Below Average"
E = "Poor"
F = "Failing"
#operations
total_grade = grade1 + grade2 + grade3 + grade4 + grade5
result = total_grade / 5
print(f"Student Name:\t {name.upper()}")
print(f"Class Name: \t{level.capitalize()}")
print(f"Total Grade:\t {total_grade}")
```

```python
#conditional statement
if result >= 90:
    print(f"GPA :{result} \t Grade : A")
    print(f"Congratulation you have passed with \033[1m{A.upper()}\033[0m distinction")
elif result >= 80 and result < 90:
    print(f"GPA : {result} \t Grade : B")
    print(f"Congratulation you have passed with \033[1m{B.upper()}\033[0m distinction")
elif result >= 70 and result < 80:
    print(f"GPA : {result} \t Grade : C")
    print(f"Congratulation you have passed with \033[1m{C.upper()}\033[0m distinction")
elif result >= 60 and result < 70:
    print(f"GPA : {result} \t Grade : D")
    print(f"Sorry you have failed with \033[3m{D.upper()}\033[0m distinction")
else:
    if result < 60:
        print(f"GPA : {result} \t Grade : E")
        print(f"Sorry you have failed with \033[3m{E.upper()}\033[0m distinction")
```

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS  GITLENS  CODE REF

josephmbatchou@Josephs-MacBook-Air PYTHON_LABS % python3 grade_calculator.py
Please provide the student name:        Joseph Mbatchou
Please enter the student class:         Python I
Please enter your grade score for English:      76
Please enter your grade score for Mathematic:   81
Please enter your grade score for Labs:         90
Please enter your grade score for Terraform:    63
Please enter your grade score for Python:       55
Student Name:    JOSEPH MBATCHOU
Class Name:     Python i
Total Grade:     365.0
GPA : 73.0       Grade : C
Congratulation you have passed with AVERAGE distinction
josephmbatchou@Josephs-MacBook-Air PYTHON_LABS % python3 grade_calculator.py
Please provide the student name:        Depes Mbaho
Please enter the student class:         Python II
Please enter your grade score for English:      35
Please enter your grade score for Mathematic:   55
Please enter your grade score for Labs:         60
Please enter your grade score for Terraform:    10
Please enter your grade score for Python:       15
Student Name:    DEPES MBAHO
Class Name:     Python ii
Total Grade:     175.0
GPA : 35.0       Grade : E
Sorry you have failed with POOR distinction
josephmbatchou@Josephs-MacBook-Air PYTHON_LABS %
```