Student Grade Calculator

A Simple Python Project

About

This project is a basic Python program that calculates grades for a student based on marks entered for five subjects. It uses fundamental Python features like functions, loops, and conditional statements.

Features

- Takes input for 5 subject marks

- Calculates total, average, and percentage

- Assigns grade using if-else logic

- Beginner-friendly and easy to run

How to Run

1. Make sure Python 3 is installed on your system.

2. Download the `grade_calculator.py` file.

3. Open terminal or command prompt.

4. Run the program using:

   python grade_calculator.py

Python Code

```python
def calculate_grade(marks):
    total = sum(marks)
    average = total / len(marks)
    percentage = (total / 500) * 100

    if percentage >= 90:
        grade = 'A'
    elif percentage >= 75:
        grade = 'B'
    elif percentage >= 50:
        grade = 'C'
    else:
        grade = 'Fail'
```

```
    return total, average, percentage, grade

# Main Program
print("Enter marks for 5 subjects:")
marks = []

for i in range(5):
    mark = float(input(f"Subject {i+1}: "))
    marks.append(mark)

total, avg, percent, grade = calculate_grade(marks)

print("\n--- Result ---")
print(f"Total Marks: {total}")
print(f"Average Marks: {avg}")
print(f"Percentage: {percent}%")
print(f"Grade: {grade}")
```

Sample Output

```
Enter marks for 5 subjects:
Subject 1: 90
Subject 2: 85
Subject 3: 80
Subject 4: 95
Subject 5: 88

--- Result ---
Total Marks: 438.0
Average Marks: 87.6
Percentage: 87.6%
Grade: B
```

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