

EXPERIEMNT - 5

5.1.2 Student Grade based on Aggregate

ALGORITHM

Step 1: Start the program.

Step 2: Input marks of four subjects: m1, m2, m3, m4.

Step 3: Calculate the total marks using:

$$\text{total} = m1 + m2 + m3 + m4$$

Step 4: Calculate the aggregate percentage using:

$$\text{aggregate} = (\text{total} / 400) \times 100$$

Step 5: Check the aggregate percentage:

If aggregate > 75, assign grade = Distinction

Step 6: Else if aggregate ≥ 60 and < 75 , assign grade = First Division

Step 7: Else if aggregate ≥ 50 and < 60 , assign grade = Second Division

Step 8: Else if aggregate ≥ 40 and < 50 , assign grade = Third Division

Step 9: Else, assign grade = Fail

Step 10: Display the total marks.

Step 11: Display the aggregate percentage up to two decimal places.

Step 12: Display the grade of the student.

Step 13: End the program.

PYTHON CODE

```
m1, m2, m3, m4 = map(int, input().split())
```

```
total = m1 + m2 + m3 + m4
```

```
aggregate = (total / 400) * 100
```

```
if aggregate > 75:
```

```
    grade = "Distinction"
```

```
elif aggregate >= 60:
```

```
    grade = "First Division"
```

```
elif aggregate >= 50:
```

```
    grade = "Second Division"
```

```
elif aggregate >= 40:
```

```
    grade = "Third Division"
```

```
else:
```

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```
grade = "Fail"  
print(total)  
print(f"aggregate:{.2f}")  
print(grade)
```

FLOWCHART



EXCECUTION

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