

Algorithm

- 1 Start
- 2 Read four subject marks
- 3 total = sum of marks
- 4 $\text{percentage} = (\text{total} / 400) \times 100$
- 5 If $\text{percentage} > 75 \rightarrow \text{Distinction}$
- 6 Else if $\text{percentage} \geq 60 \rightarrow \text{First Division}$
- 7 Else if $\text{percentage} \geq 50 \rightarrow \text{Second Division}$
- 8 Else if $\text{percentage} \geq 40 \rightarrow \text{Third Division}$
- 9 Else $\rightarrow \text{Fail}$
- 10 Print total, percentage (2 decimals), and grade
- 11 Stop

The screenshot shows a Python IDE interface with a file named 'studentG...'. The code is as follows:

```
1 marks = list(map(int, input().split()))
2
3 total = sum(marks)
4 percentage = total / 4
5
6 if percentage > 75:
7     grade = "Distinction"
8 elif percentage >= 60:
9     grade = "First Division"
10 elif percentage >= 50:
11     grade = "Second Division"
12 elif percentage >= 40:
13     grade = "Third Division"
14 else:
15     grade = "Fail"
16
17 print(total)
18 print(f"{percentage:.2f}")
19 print(grade)
20
```

Below the code editor, the performance metrics and test case results are displayed:

Average time	Maximum time	Test Results
0.010 s 10.30 ms	0.020 s 20.00 ms	5 out of 5 shown test case(s) passed 5 out of 5 hidden test case(s) passed

The test cases are listed below:

- Test case 1: 20 ms
- Test case 2: 3 ms
- Test case 3: 11 ms
- Test case 4: 9 ms
- Test case 5: 6 ms

At the bottom, there are buttons for 'Terminal', 'Test cases', 'Prev', 'Reset', 'Submit', and 'Next'.

FLOWCHART

