

EXPERIMENT - 1

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1.1.5 Student Pass or Fail

Algorithm

Step 1 :- Start

Step2 :- Read the marks obtained by the student.

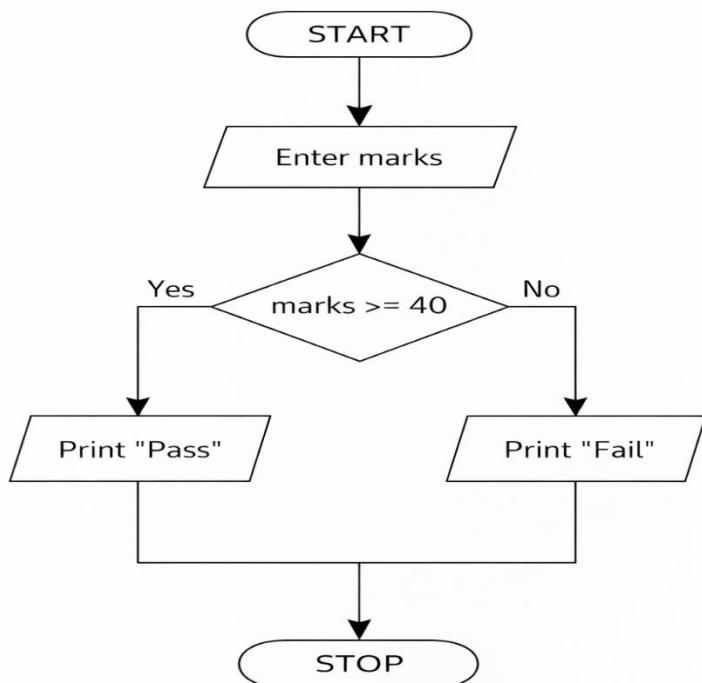
Step 3:- Check whether the marks are greater than or equal to 40.

Step 4 :- If marks ≥ 40 , then display “Pass”.

Step 5 :- Otherwise, display “Fail”.

Step 6 :-Stop

Flowchart



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Python code

```
marks = int(input())
```

```
if marks >= 40:
```

```
    print("Pass")
```

```
else:
```

```
    print("Fail")
```

EXCECUTION

The screenshot shows the CodeTantra IDE interface. The title bar says "CODETANTRA" and "Home". The top right shows the user "om.kashikar.batch2025@sitnagpur.siu.edu.in" and "Logout". The main area has a dark theme with light-colored code blocks. A sidebar on the left contains sections for "1.15. Student Pass or Fail Status", "Pass/Fail Criteria", "Input Format", and "Output Format". The "Pass/Fail Criteria" section lists: "A student passes if marks ≥ 40 " and "A student fails if marks < 40 ". The "Input Format" section states: "Single line contains an integer representing the marks obtained by the student". The "Output Format" section states: "Print 'Pass' if the student passed the exam. Print 'Fail' if the student failed the exam.". The code editor window shows a file named "passOrFa..." with the following content:

```
marks = int(input())
if marks >= 40:
    print("Pass")
else:
    print("Fail")
```

The code editor includes a status bar with "02:00", a clock icon, a search icon, and a refresh icon. To the right of the code editor is a "Submit" button and a "Debugger" icon. Below the code editor is a performance metrics section showing "Average time: 0.003 s" (highlighted in red), "Maximum time: 0.003 s" (highlighted in red), and "2.57 ms". It also shows "3 out of 3 shown test case(s) passed" and "4 out of 4 hidden test case(s) passed". Below this are three test cases: "Test case 1" (3 ms), "Test case 2" (3 ms), and "Test case 3" (2 ms). Each test case shows "Expected output" and "Actual output" both containing the value "45". At the bottom of the interface are buttons for "Prev", "Reset", "Submit", and "Next >".