

1.1.5] Student Pass/Fail Status :

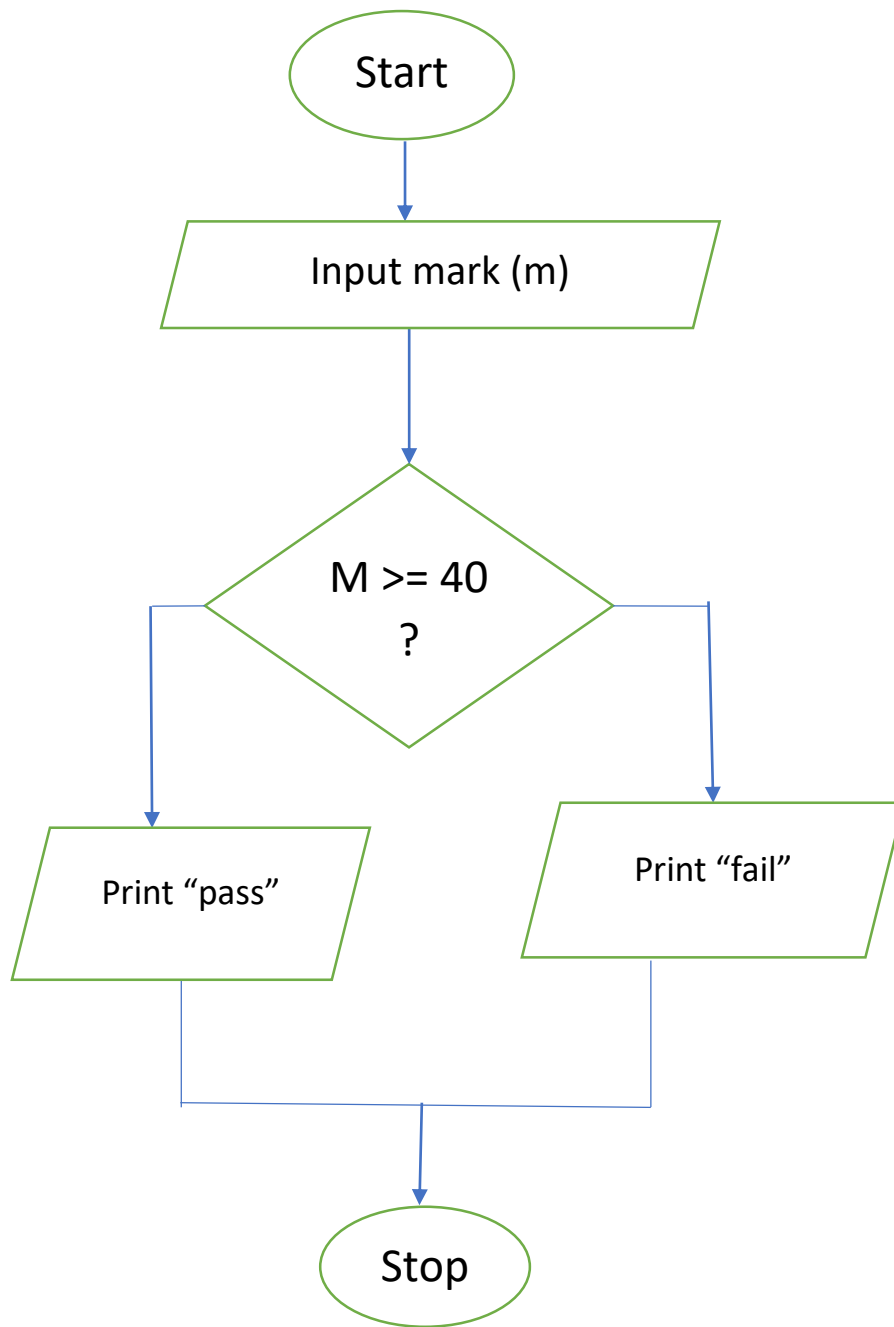
A) Algorithm :

- Step 1. Start
- Step 2. Read marks (m)
- Step 3. If $m \geq 40$ then print "Pass"
- Step 4. Else print "Fail"
- Step 5. Stop

B) Python Code :

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

C) flowchart :



D) Output image:

The screenshot displays the CODETANTRA online IDE interface. On the left, a problem titled "1.1.5. Student Pass or Fail Status" is shown. The problem description asks for a Python program to determine if a student passed an exam based on their marks. The pass/fail criteria are: a student passes if marks are greater than or equal to 40, and fails if marks are less than 40. The input format is a single line with an integer representing the marks. The output format is to print "Pass" if the student passed and "Fail" if they failed. Below the problem description is a button labeled "Sample Test Cases".

On the right, the code editor shows the following Python code:

```
1 marks = int(input())
2 if marks >= 40:
3     print("Pass")
4 else:
5     print("Fail")
```

The code has been executed successfully. The execution summary shows an average time of 0.004 s and a maximum time of 0.005 s. It indicates that 3 out of 3 shown test cases passed and 4 out of 4 hidden test cases passed. Below the summary, the details for Test case 1 are shown, indicating that the expected output "45" and the actual output "45" match, resulting in a "Pass" status. Test case 2 is also shown as passed.