

### **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"

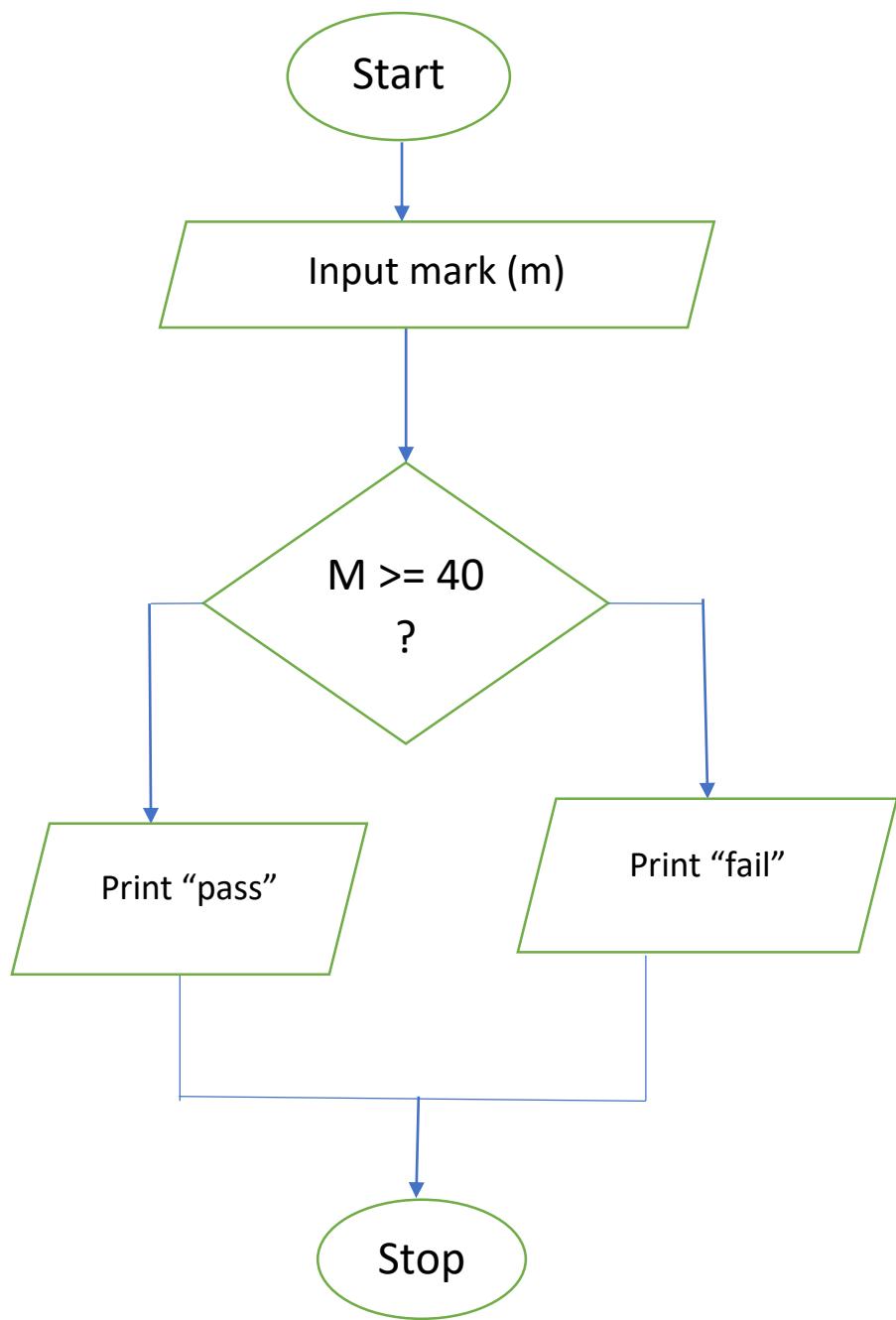
Step 4. Else print "Fail"

Step 5. Stop

#### **B) Python Code :**

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

#### **C) flowchart :**



## D) Output image:

The screenshot shows a CodeTantra IDE interface for a Python challenge titled "1.15. Student Pass or Fail Status".

**Challenge Description:** Write a Python program to determine whether a student passed the exam or not based on their marks.

**Pass/Fail Criteria:**

- A student passes if marks  $\geq 40$
- A student fails if marks  $< 40$

**Input Format:**

- Single line contains an integer representing the marks obtained by the student.

**Output Format:**

- Print "Pass" if the student passed the exam.
- Print "Fail" if the student failed the exam.

**Code Editor:**

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

**Performance Metrics:**

Average time	0.004 s	Maximum time	0.005 s
4.14 ms		5.00 ms	

**Test Cases:**

- Test case 1: Expected output 45, Actual output 45, Status Pass
- Test case 2: Status Pass

**Statistics:** 3 out of 3 shown test case(s) passed, 4 out of 4 hidden test case(s) passed.