Experiment - 1.1.5. Student Pass or Fail Status

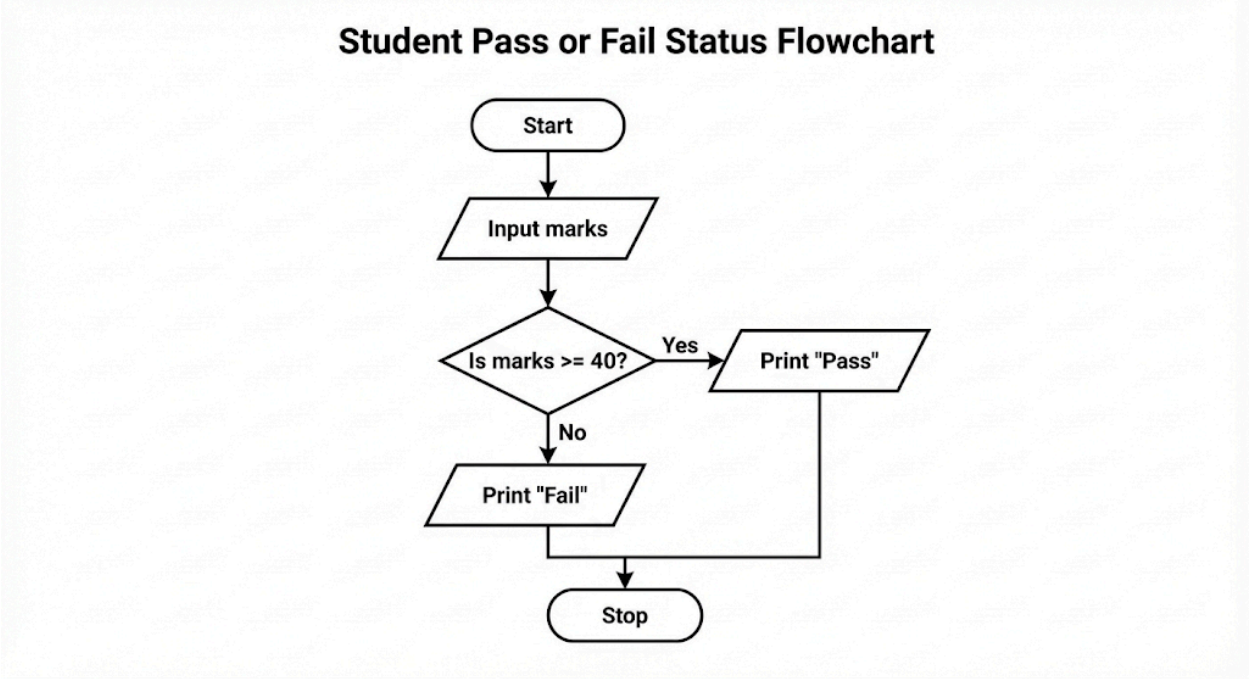
1. Aim

To design and implement a Python program that determines a student's examination status based on their marks. The program evaluates whether the student has passed or failed using a threshold of 40 marks (Pass: $marks \geq 40$, Fail: $marks < 40$).

2. Pseudocode

1. **START**
2. **READ** the input value from the user and convert it to an integer.
3. **STORE** the value in the variable marks.
4. **IF** marks is greater than or equal to 40:
    - **PRINT** "Pass"
5. **ELSE**:
    - **PRINT** "Fail"
6. **END**

3. Flowchart



4. Python Program

```
# Program to determine student pass/fail status
# Input: marks as an integer
```

```
# Output: "Pass" or "Fail" based on criteria

# Taking marks as input
marks = int(input())

# Conditional check for passing criteria
if marks >= 40:
    print("Pass")
else:
    print("Fail")
```

5. Experiment Screenshot