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Reg No. FA21-BSE-027

Lab task: 04

Late Student Attendance Checker

Output:

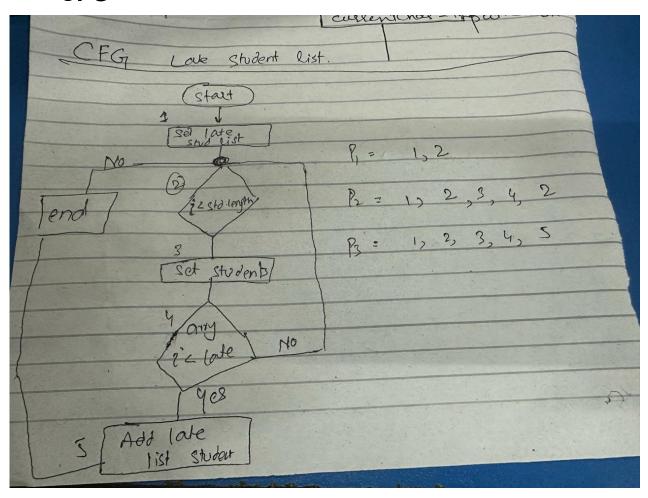
```
Run AttendanceChecker ×

C:\Users\irfan\.jdks\openjdk-22.0.1\bin\java.exe '
Enter class start time (HH:mm): 08:00
Enter students (enter 'done' to finish):
Name: ali
Arrival Time (HH:mm): 08:02
Name: irfii
Arrival Time (HH:mm): 08:11
Name: done

Late Students:
irfii (Arrived at: 08:11)

Process finished with exit code 0
```

CFG



Listing the Paths

After analyzing your image CFG, list out the paths you've identified in a clear way. For example:

Path 1:

Start --- Get Class Start Time ---> Student Loop (0 times) ---> Calculate Late Threshold -> ... -> End

Path 2:

Start ---> Get Class Start Time ----> Student Loop (1 time) ----> Check Arrival Time ----> No Late Students -> ----> End

Path 3:

Start ----> Get Class Start Time ----> Student Loop (1 time) ---> Check Arrival Time ----> Late -> Add to Late List ->----> End

Test Cases:

Test Case ID	Description	Expected Outcome	Coverage Criteria
TC01	No students entered (input "done").	"All students arrived on time!" message.	Statement, Branch
TC02	One student on time (arrival before time deadline).	Student's name not included in the late student list.	Statement, Branch, Decision
TC03	One student late (arrival after time deadline).	Student's name included in the late student list.	Statement, Branch, Decision
TC04	Multiple students, some on time, some late.	List should include only the late students.	Statement, Branch, Decision