

ALA-1**Error code:**

```
print("Student Grade System")
students = int(input("Enter number of students: "))
i = 0
total_marks = 0
pass_count = 0
while i < students:
    marks = int(input("Enter marks: "))
    total_marks = total_marks + marks
    if marks >= 40:
        pass_count = pass_count + 1
        print("Pass")
    else
        #error 1
        print("Fail")
    i = i + 1
    #error 2
average = total_marks / students
print("Average:", average)
print("Pass count:", pass_count    #error 3
if average >= 75:
    print("Excellent class")
else:
    print("Average class")
```

Error reason:

Error 1: forgot “ : ” after else statement.

Error 2: “i = i + 1” this line of code is inside the else statement making an infinite loop

Error 3: “print("Pass count:", pass_count” forgot closing “) ”.

Solved code:

```
print("Student Grade System")
students = int(input("Enter number of students: "))
i = 0
total_marks = 0
pass_count = 0
while i < students:
    marks = int(input("Enter marks: "))
    total_marks = total_marks + marks
    if marks >= 40:
        pass_count = pass_count + 1
        print("Pass")
    else:
        print("Fail")
    i = i + 1
average = total_marks / students
print("Average:", average)
print("Pass count:", pass_count)
if average >= 75:
    print("Excellent class")
else:
    print("Average class")
```

Output:

```
Student Grade System
Enter number of students: 5
Enter marks: 99
Pass
Enter marks: 88
Pass
Enter marks: 77
Pass
Enter marks: 66
Pass
Enter marks: 55
Pass
Average: 77.0
Pass count: 5
Excellent class
```