

## 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")                   #error 2

    i = i + 1

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
```