Assignment - 3

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Course Name: Python Programming

1. A list contains the marks of students in a class test. Write a program to seperate the list into two lists: One for passed students (marks ≥40) and one for failed students. Print no. of students in each category and also display the class average.

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```
marks = [75, 32, 58, 90, 41, 22, 67, 39, 84, 50]
passed = []
failed = []
for m in marks:
    if m >= 40:
        passed.append(m)
    else:
        failed.append(m)
average = sum(marks)/len(marks)
print("Passed students:", passed)
print("No. of passed students:", len(passed))
print("Failed students:", failed)
print("No. of failed students:", len(failed))
print("Class Average:", average)
```

Output:

Passed students: [75, 58, 90, 41, 67, 84, 50]
Number of Passed Students: 7
Failed Students: [32, 22, 39]
Number of Failed students: 3
Class Average: 55.8