For Part 1 Screenshots

1-

```
Enter student count:2

Not in range!
Enter student count:51

Not in range!
Enter student count:3

24 11 48
-------------------------------------
Student Score Calculator Menu For 3 Student
1)Most Succesfull Student
2)Most Unsuccesfull Student
3)Letter Grade Statistics
4)Calculate Average
5)Show All Data
1

                    Make selection:1

Most Succesfull Student

index:3
Score:48
letter grade:F
-------------------------------------
Student Score Calculator Menu For 3 Student
1)Most Succesfull Student
2)Most Unsuccesfull Student
3)Letter Grade Statistics
4)Calculate Average
5)Show All Data
2

                    Make selection:2

Most Unuccesfull Student

index:2
Score:11
letter grade:F
-------------------------------------
Student Score Calculator Menu For 3 Student
1)Most Succesfull Student
2)Most Unsuccesfull Student
3)Letter Grade Statistics
4)Calculate Average
5)Show All Data
```

2-

```
                    Make selection:3

0 students gets 'A'
0 students gets 'B'
0 students gets 'C'
0 students gets 'D'
3 students gets 'F'
--------------------------------------
Student Score Calculator Menu For 3 Student
1)Most Succesfull Student
2)Most Unsuccesfull Student
3)Letter Grade Statistics
4)Calculate Average
5)Show All Data
4

                    Make selection:4

The average of 3 student:27.67
--------------------------------------
Student Score Calculator Menu For 3 Student
1)Most Succesfull Student
2)Most Unsuccesfull Student
3)Letter Grade Statistics
4)Calculate Average
5)Show All Data
```

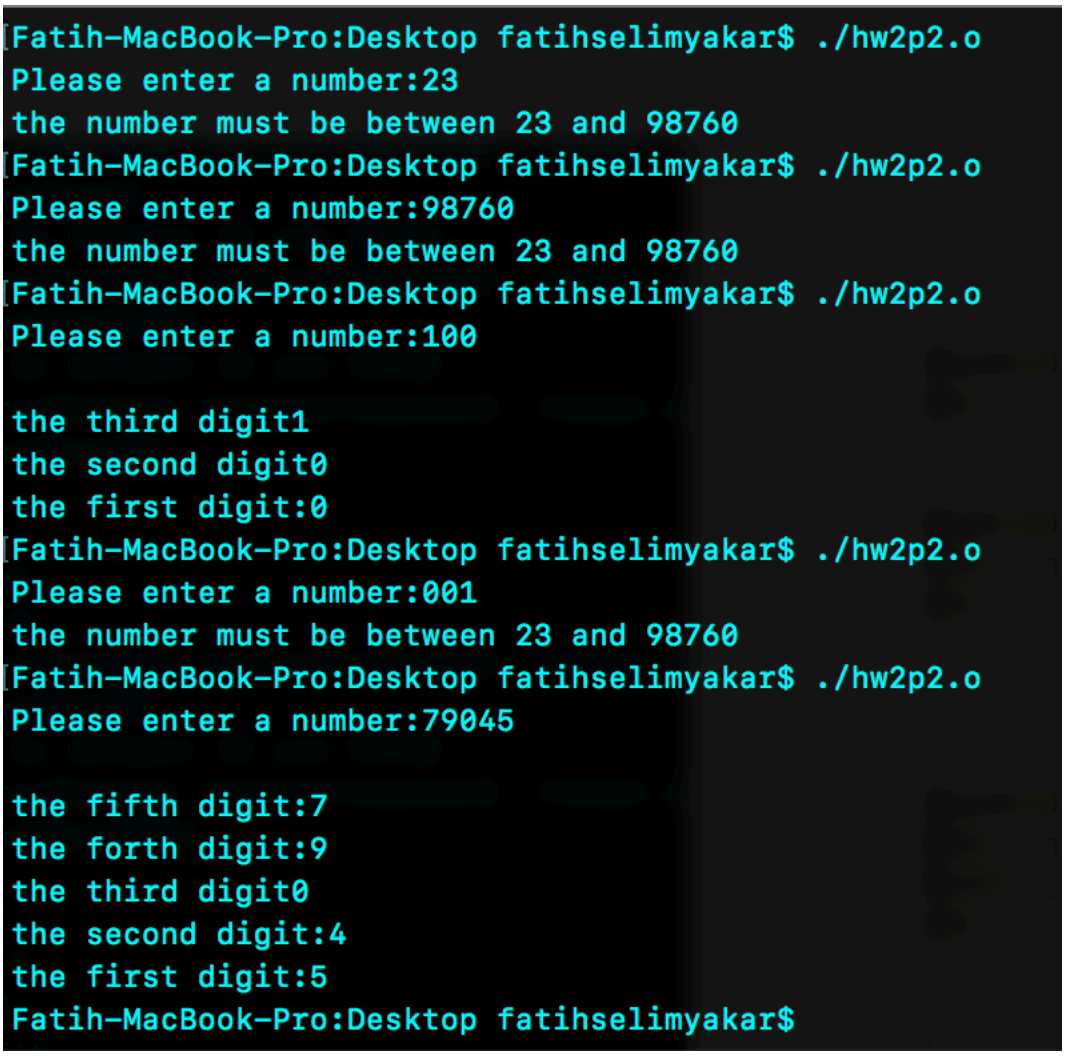
3-

```
                    Make selection:5

Most Succesfull Student

index:3
Score:48
letter grade:F


Most Unuccesfull Student

index:2
Score:11
letter grade:F


0 students gets 'A'
0 students gets 'B'
0 students gets 'C'
0 students gets 'D'
3 students gets 'F'

The average of 3 student:27.67
-------------------------------------
Student Score Calculator Menu For 3 Student
1)Most Succesfull Student
2)Most Unsuccesfull Student
3)Letter Grade Statistics
4)Calculate Average
5)Show All Data
-1

                    Make selection:-1
Fatih-MacBook-Pro:Desktop fatihselimyakar$
```

EXPLANATİON

I declare the menu statements and seperate by letter grade and then print in functions. I produced random numbers. In main function then I writed "if else" to find out how many people have taken letter grades.After I calculate sum for average. And the finally I find max and min. if the number of students is not within this range the program warn and again asks to student count. And the finally I print the menu and user select 1,2,3,4 or 5 and If user wants to exit menu, select -1. To sum up these while loop and within these are to print the values I found above by the user selection. If user don't choose 1,2,3,4,5,-1 the program warn user.

For Part 2 Screenshots



EXPLANATİON

I defined the num2 variable because the num variable will change after the loop from beginning. Basicly I use the math rule: I get the mod then I find the first digit, for pass the second digit at the and of the loop I divide 10. And I repeat these events.In the final I assign 5 different variable by my counter because in the end of the program I will(have to) print reverse numbers. In printing if-else statements I provide upper and lower bounds from incoming the homework-pdf by num2, by the way I provide intermediate bounds for number of digits.And depending on these conditions my variables are printed. If user do not follow these conditions, the program warn user.