

## Part 1

I wrote a program that takes the number of students from keyboard between 3 and 50.

I generated a random grade for each students.

The program displays a menu for the user.

Menu include these:

- I. Show most successful student,
- II. Show most unsuccessful student,
- III. List the number of students for each letter grade,
- IV. Show calculated average grade
- V. Show all four options data

The program does not close or restart after any option selection until user enter -1 on menu selection.

```
Not in Range!!!
Enter student count:51

Not in Range!!!
Enter student count:34
68 56 62 52 43 77 74 65 0 26
82 67 42 7 56 5 17 35 84 41
88 54 3 64 26 15 66 58 68 100
41 94 16 31
-----
Student Score Calculator Menu for 34 Student
1)Most Successful Student
2)Most Unsuccessful Student
3)Letter Grade Statistics
4)Calculate Average
5)Show all Data
Make Selection:0
False Selection!!!
-----
Student Score Calculator Menu for 34 Student
1)Most Successful Student
2)Most Unsuccessful Student
3)Letter Grade Statistics
4)Calculate Average
5)Show all Data
Make Selection:
```

```
-----
Student Score Calculator Menu for 34 Student
1)Most Successful Student
2)Most Unsuccessful Student
3)Letter Grade Statistics
4)Calculate Average
5)Show all Data
Make Selection:2
Most Unsuccessfully student:
Index:9
Score:0
Letter Grade:F
-----
```

```

Student Score Calculator Menu for 34 Student

1)Most Successful Student
2)Most Unsuccessful Student
3)Letter Grade Statistics
4)Calculate Average
5)Show all Data

Make Selection:3

2 student got letter grade 'A'
2 student got letter grade 'B'
2 student got letter grade 'C'
7 student got letter grade 'D'
21 student got letter grade 'F'

```

```

-----
Student Score Calculator Menu for 34 Student

1)Most Successful Student
2)Most Unsuccessful Student
3)Letter Grade Statistics
4)Calculate Average
5)Show all Data

Make Selection:4

The average score of 34 Student is 48.38
-----

```

```

-----
Student Score Calculator Menu for 34 Student

1)Most Successful Student
2)Most Unsuccessful Student
3)Letter Grade Statistics
4)Calculate Average
5)Show all Data

Make Selection:5

Most Successfully student:
Index:30
Score:100
Letter Grade:A

Most Unsuccessfully student:
Index:9
Score:0
Letter Grade:F

2 student got letter grade 'A'
2 student got letter grade 'B'
2 student got letter grade 'C'
7 student got letter grade 'D'
21 student got letter grade 'F'

The average score of 34 Student is 48.38
-----

```

## Part 2

I wrote a C program to find all digits of a number which is entered from the keyboard (the number must be between 23 and 98760).

The program screens are shown in below.

```

Enter the Number:79045

The fifth digit is 7
The fourth digit is 9
The third digit is 0
The second digit is 4
The first digit is 5

-----
Process exited after 2.182 seconds with return value 0
Press any key to continue . . .

```

Enter the Number:45123

The fifth digit is 4

The fourth digit is 5

The third digit is 1

The second digit is 2

The first digit is 3

-----  
Process exited after 8.062 seconds with return value 0  
Press any key to continue . . .