

## PART 1

### Summary:

- 1) we will use this number as a parameter when the number of students is given and we will specify the actual operations in this function.
- 2) In this function we set the main loop and do all the updates and screen printing in this loop.
- 3) Then we set another loop that includes switch case for menü option to always ask user to enter an menü option.
- 4) Finally, we use this function with parameter that user will enter in main.

```
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

ibrahim@ubuntu:~$ gcc -o hw2 hw2.c
gcc: error: hw2.c: B yle bir dosya ya da dizin yok
gcc: fatal error: no input files
compilation terminated.
ibrahim@ubuntu:~$ cd Masa st 
ibrahim@ubuntu:~/Masa st $ gcc -o hw2 hw2.c
ibrahim@ubuntu:~/Masa st $ ./hw2
Enter Number Of Students: 2

Not in range!
Enter Number Of Students: 53

Not in range!
Enter Number Of Students: 52

Not in range!
Enter Number Of Students: █
```

```
ibrahim@ubuntu:~$ cd Masa st 
ibrahim@ubuntu:~/Masa st $ gcc -o hw2 hw2.c
ibrahim@ubuntu:~/Masa st $ ./hw2
Enter Number Of Students: 2

Not in range!
Enter Number Of Students: 53

Not in range!
Enter Number Of Students: 52

Not in range!
Enter Number Of Students: 30

7 90 98 75 56 87 32 52 9 88
46 19 86 70 71 77 56 94 24 79
46 3 88 44 77 63 74 88 61 27

-----
Student Score Calculator Menu For 30

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 30

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

Make Selection: 1

```
Most successfully Student :
Index :3
Score : 98
Letter grade : A
-----
```

```
-----
Student Score Calculator Menu For 30
```

```
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 :22
Score :3
Letter grade :F
-----
```

```
-----
Student Score Calculator Menu For 30
```

```
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 30
```

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

Make Selection: 3

```
3 Student got Letter grade 'A'
5 Student got Letter grade 'B'
7 Student got Letter grade 'C'
2 Student got Letter grade 'D'
13 Student got Letter grade 'F'
-----
```

```
-----
Student Score Calculator Menu For 30
```

```
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 30

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 30 Student is 59.57
-----
Student Score Calculator Menu For 30

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 30

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 :3
Score : 98
Letter grade : A

Most Unsuccessfully Student:
Index :22
Score :3
Letter grade :F

3 Student got Letter grade 'A'
5 Student got Letter grade 'B'
7 Student got Letter grade 'C'
2 Student got Letter grade 'D'
13 Student got Letter grade 'F'

The Average Score of 30 Student is 59.57
-----
Student Score Calculator Menu For 30

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

Make Selection: █

```

```
The Average Score of 30 Student is 59.57
-----
Student Score Calculator Menu For 30

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

Make Selection: -1
ibrahim@ubuntu:~/Masaüstü$
```

## PART 2

Summery:

- 1) First,we find the digit number of number.We find this by seting a loop.
- 2) Then we set another loop that will repeat as digit number.
- 3) Every step we divide the number by the maximum number of digits and print it.Then take mod of number by maximum digit value.
- 4) Step 3 will repeat as long as loop is right.

```
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.
```

```
ibrahim@ubuntu:~$ cd Masaüstü
ibrahim@ubuntu:~/Masaüstü$ ./hw2part2
Enter the number:16
Enter the number:99999
Enter the number:
```

```
ibrahim@ubuntu:~$ cd Masaüstü
ibrahim@ubuntu:~/Masaüstü$ ./hw2part2
Enter the number:16
Enter the number:99999
Enter the number:45691
The fifth digit is 4
The fourth digit is 5
The third digit is 6
The second digit is 9
The first digit is 1
ibrahim@ubuntu:~/Masaüstü$ ./hw2part2
Enter the number:68901
The fifth digit is 6
The fourth digit is 8
The third digit is 9
The second digit is 0
The first digit is 1
ibrahim@ubuntu:~/Masaüstü$ ./hw2part2
Enter the number:154
The third digit is 1
The second digit is 5
The first digit is 4
ibrahim@ubuntu:~/Masaüstü$ ./hw2part2
Enter the number:1659
The fourth digit is 1
The third digit is 6
The second digit is 5
The first digit is 9
ibrahim@ubuntu:~/Masaüstü$ ./hw2part2
Enter the number:25
The second digit is 2
The first digit is 5
ibrahim@ubuntu:~/Masaüstü$
```