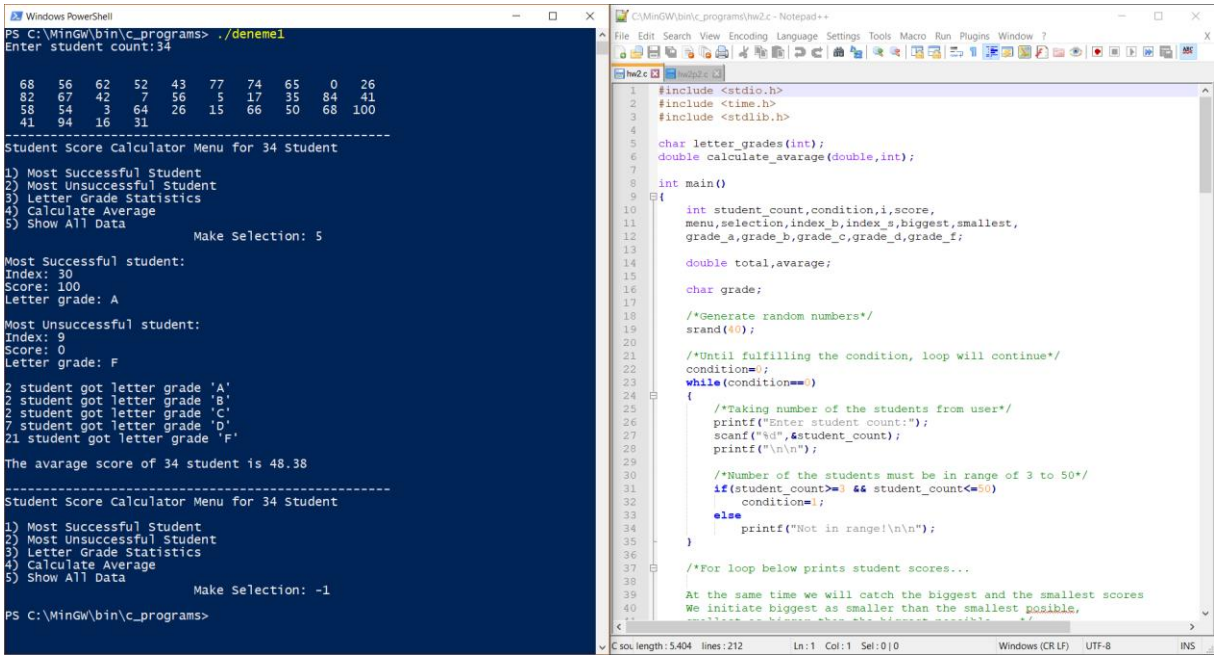
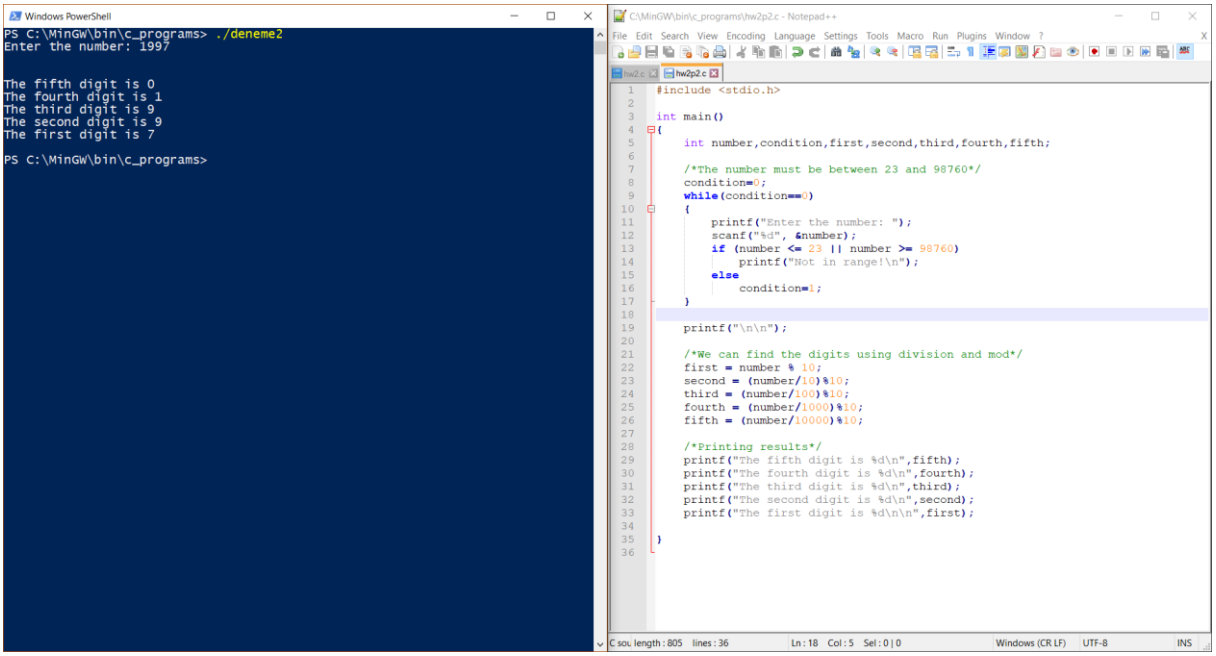
PART 1



```
PS C:\MinGW\bin\c_programs> ./deneme1
Enter student count:34


  68   56   62   52   43   77   74   65    0   26
  82   67   42    7   56    5   17   35   84   41
  58   54    3   64   26   15   66   50   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: 5

Most Successful student:
Index: 30
Score: 100
Letter grade: A

Most Unsuccessful 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 avarage 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: -1

PS C:\MinGW\bin\c_programs>
```

```c
#include <stdio.h>
#include <time.h>
#include <stdlib.h>

char letter_grades(int);
double calculate_avarage(double,int);

int main()
{
    int student_count,condition,i,score,
    menu,selection,index_b,index_s,biggest,smallest,
    grade_a,grade_b,grade_c,grade_d,grade_f;

    double total,avarage;

    char grade;

    /*Generate random numbers*/
    srand(40);

    /*Until fulfilling the condition, loop will continue*/
    condition=0;
    while(condition==0)
    {
        /*Taking number of the students from user*/
        printf("Enter student count:");
        scanf("%d",&student_count);
        printf("\n\n");

        /*Number of the students must be in range of 3 to 50*/
        if(student_count>=3 && student_count<=50)
            condition=1;
        else
            printf("Not in range!\n\n");
    }

    /*For loop below prints student scores...

    At the same time we will catch the biggest and the smallest scores
    We initiate biggest as smaller than the smallest posible,
```

PART 2



```
PS C:\MinGW\bin\c_programs> ./deneme2
Enter the number: 1997


The fifth digit is 0
The fourth digit is 1
The third digit is 9
The second digit is 9
The first digit is 7

PS C:\MinGW\bin\c_programs>
```

```c
#include <stdio.h>

int main()
{
    int number,condition,first,second,third,fourth,fifth;

    /*The number must be between 23 and 98760*/
    condition=0;
    while(condition==0)
    {
        printf("Enter the number: ");
        scanf("%d", &number);
        if (number <= 23 || number >= 98760)
            printf("Not in range!\n");
        else
            condition=1;
    }

    printf("\n\n");

    /*We can find the digits using division and mod*/
    first = number % 10;
    second = (number/10)%10;
    third = (number/100)%10;
    fourth = (number/1000)%10;
    fifth = (number/10000)%10;

    /*Printing results*/
    printf("The fifth digit is %d\n",fifth);
    printf("The fourth digit is %d\n",fourth);
    printf("The third digit is %d\n",third);
    printf("The second digit is %d\n",second);
    printf("The first digit is %d\n\n",first);


}
```