Programming Assignment 4
Due Date : 3 / 31 / 2021
No later than 5:15 pm

NAME : _____

CS 4350 – 251 - Unix Systems Programming

Assignment Number: _____

Due Date: 3 / 31 / 2021

The above information must be entered on the top left side of the first page of your program as comments

Write a C program that generate 2 random numbers between 1 and 10 inclusive. A sum will be calculated by adding the generated numbers. Then , the program will find the number of times it takes for the sum is be reproduced again

Your program will calculate the number of times the numbers are generated to get the desired sum.

Note that the smallest generated number is 1 and the largest number is 10. So, the smallest sum of the numbers is 2 and the largest sum of the numbers is 20. Use the random number generator to randomly generate a number between 1 and 10 inclusive .

Sample Run

```
Practicing C Programming Language


First  Generated Number  : 2
Second Generated Number  : 3

First Number +  Second Number  =     5


Processing  . . . . . .


Generating First Number      =     5
Generating Second  Number    =     7
The sum of the generated numbers  is  : 12


Generating First Number      =     3
Generating Second  Number    =     8
The sum of the generated numbers  is  : 11


Generating First Number      =     8
Generating Second  Number    =     2
The sum of the generated numbers  is  : 10


Generating First Number      =     3
Generating Second  Number    =     2
The sum of the generated numbers  is  : 5



Number of Times the Numbers were Generated
Before the Desired sum was reached   =   4
```

Implemented By Husain Gholoom

3 - 31 - 2021

Instructions :

1. The programs must be syntactically and logically correct. The program will be tested **using Zeus Server** at the university using the **simple gcc command followed by the filename.c** such as

   gcc Husain_Gholoom_HW4.c

2. No recursions are allowed. However, you may use functions. (One function to generate the random number and the second function to calculate the number of times it took to find the desired sum . Functions are called from your main program).
3. You must upload your solution **using Canvas** .

   Make sure that you name your homework document as follows :

   Xxxx_Yyyy_HW4.c **Where Xxxx is your first name , and Yyyy is your last name**

   For example , the file name should look something like Husain_Gholoom_HW4.c

   You must upload your programs **no later than 5:15 pm on the due date**. **No late assignments will be accepted.**

The following points will be deducted if:

- Compilation Errors, missing electronic copy **(- 10 points)**

- Other **(at least 1.25 point)** if **any** of the following takes a place :

  - Logical Errors.
  - Incorrect program file name.
  - Incorrect Style **such as but not limited to** missing program documentations, missing Header comments, missing footer comments, not replacing my name with your name … etc.