

# Number Guessing Game

Author: Ahmad Fahmid

NSU ID: 2232502642

Bachelor of Computer Science and Engineering  
Department of Electrical and Computer Engineering  
North South University, Dhaka, Bangladesh

## What is number guessing game?

**Number guessing game:** an addictive game that's easy to play but hard to win. This game involves a player and a computer, where the object of the game is for the player to guess number between 0 and N in a maximum of N attempts. Before each attempt, he can make use of hints from the computer if he has none (if there are no more hints, it just gives new ones). And the N is decided by computer. If he succeeds in guessing before taking all the attempts, he wins; if not, then he loses.

## About the source code of number guessing game:

=**Number guessing game** is written in C language.

## Interface of Rock Paper Scissors

After **Number guessing game** has opened the user will see a menu like this:

```

$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$
$
$      Select any of them -      $
$                                $
$      1. PLAY GAME              $
$                                $
$                                $
$      2. EXIT                   $
$                                $
$                                $
$                                $
$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$

```

User can press the corresponding number to go to that menu.

## 1. Play

This is the main part where you can play **Number guessing game**.

## 2. Exit

To exit **Number guessing game.**

### Functions used in the codes are:

- **int number\_guess();**
- **void number\_guess\_game();**
- **void load();**

## Int number\_guess();

This function is the main function of the **Number guessing game**.

In this game **`number_guess_game_score`** counts the score of the full game. If user wins then 1 number added to score and if not it remains.

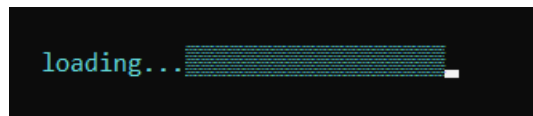
Then the interference of the game is printed in this function.

```
$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$  
$                                                                 $  
$    Select any of them -                                     $  
$                                                                 $  
$    1. PLAY GAME                                           $  
$                                                                 $  
$                                                                 $  
$    2. EXIT                                                 $  
$                                                                 $  
$                                                                 $  
$                                                                 $  
$                                                                 $  
$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$
```

And according to the instructions if user press those number , user can go to that menu.As the other to functions **void number\_guess\_game();** and **void load();** is called in this function.If user selects 1 then user can play the game if user selected 2 then exits from the game.

## void load();

This function is to make a loading graphics.



## Void number\_guess\_game();

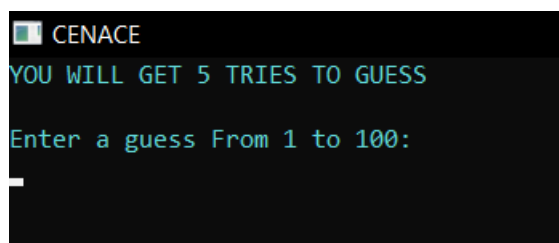
- **number\_guess\_game\_score;** is to store the score.
- **srand(time(NULL))** is used to seed generate random numbers with time.

The game is played 5 times in a row and If user guess the number 1 number added or remains the same score and from that score the winner is selected.

- **int number=rand() % 100 +1;**

This will give me random numbers from 0 to infinity. So to get 1 2 3 ,It will mod that integer with 3 and it will give me 0,1,2 and to get 1,2,3 there is a plus 1 at the end.

As the game is loaded this interference comes

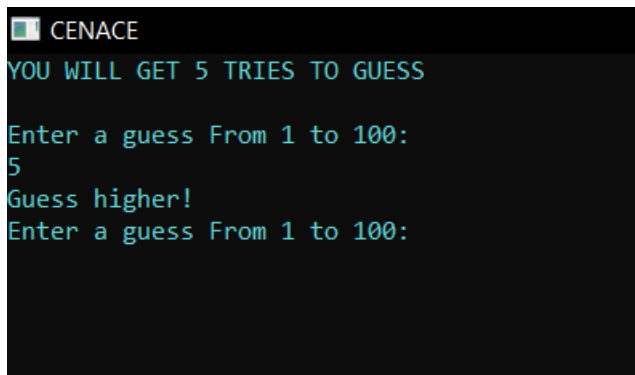


From this menu, the user can select his/her choice to give his/her number. Then, the number is stored into **guess**.

To create a successful game, there is a lot of if else conditions in it. The program will check the conditions according to the game rule and print if the user wins or loses or draws the game and prints the score.

And if user don't get the correct number then computer gives you hints to get the answer correct answer.

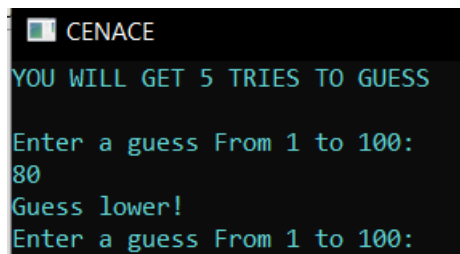
- If user guessed number is lower than the correct number then It will tell **Guess higher!** And gives user another chance to get the correct answer.



```
CENACE
YOU WILL GET 5 TRIES TO GUESS

Enter a guess From 1 to 100:
5
Guess higher!
Enter a guess From 1 to 100:
```

- If user guessed number is higher than the correct number then It will tell **Guess lower!** And gives user another chance to get the correct answer.



```
CENACE
YOU WILL GET 5 TRIES TO GUESS

Enter a guess From 1 to 100:
80
Guess lower!
Enter a guess From 1 to 100:
```

- If user guessed number is correct then It will tell **You got it!**.  
And shows the answer and the score.

```
CENACE  
You got it!  
The number is 67  
Your score is :1
```



[https://github.com/alvi00/Number\\_Guessing\\_Game-in-c](https://github.com/alvi00/Number_Guessing_Game-in-c)