

# Guessing Game in CPP

## Description:

The guessing game is a simple game in which you have to guess the correct number. I designed this game in c++ programming language.

## About:

The guessing game is a simple game in which you get 10 chances to guess the number. If you are able to guess the number in 10 attempts then you will win and if you are not able to guess the number in 10 attempts then you will lose.

I designed this game in c++ programming language and also I used the random number generator function in c++ to generate a random number between 0 to 100 which the player has to guess.

## Code:

```
#include <iostream>
#include <time.h>
using namespace std;

int main()
{
    srand(time(NULL));

    // This generates a random number between 1 and 100 . This
    number we have to guess. For that purpose we have only 10
    attempts.

    int secretNumber = rand() % 100 + 1;
    bool nerror = false; // this is to check if user enters
    other value than numbers
    int userInput = 0;
    cout << "Hi Player. Please guess the Secret Number" <<
    endl;
```

```

for (int i = 0; i < 10; i++) // This loop is for attempts
{

    if (!(cin >> userInput))
    {
        // cout << "Only enter numeric numbers" << endl;
        nerror = true;
        break;
    }
    else if (userInput == secretNumber) // if user input
and secret number matches then user wins!!
    {
        cout << "You guessed Right! The Secret Number was "
<< secretNumber << endl;
    }
    else
    {

        if (userInput > secretNumber) // if user enters the
number which is higher than the secret number then it tells to
user that please enter smaller number.
        cout << "You guessed wrong and too high, try
again!"
        << " Only " << 9 - i << " Attempts left!"
<< endl;

        if (userInput < secretNumber) // if user enters the
number which is smaller than the secret number then it tells
to user that please enter bigger/higher number.
        cout << "You guessed wrong and too low, try
again!"
        << " Only " << 9 - i << " Attempts left!"
<< endl;
    }
}

if (nerror) // if user enters the value other than numeric
value then it go inside this loop.

```

```
{  
    cout << "Please enter numeric value!!" << endl;  
}  
else // if user unable to find answer in 10 attempts then  
it will go inside this loop  
    cout << "Better luck next time!! You are not able to  
guess the number in the 10 attempts" << endl;  
    return 0;  
}
```