

PROJECT – 1

PROJECT NAME : NUMBER GUESSING GAME

NAME OF THE STUDENT : RAMAYYAGARI DHANUSREE

DATE OF THE PROJECT : 01-08-2023

PROJECT SUMMARY :

The number guessing game in Java is an exciting game where the player tries to guess a randomly generated number. First, the computer generates a random number within a specified range. Then, it's your turn to guess that number! You enter your guess, and the computer gives you feedback on whether your guess is too high or too low. Based on that feedback, you adjust your guesses until you finally hit the correct number. The game continues until you successfully guess the number.

To play this game, you'll need to import the necessary classes and create a Random object to generate the random number. Then, you'll prompt the player to enter their guess using a Scanner object. After that, you'll compare the player's guess with the generated number. If the guess is correct, you'll display a congratulatory message. If the guess is too low, you'll inform the player and prompt them to try again with a higher number. And if the guess is too high, you'll prompt them to try again with a lower number. This back-and-forth continues until the player finally guesses the correct number. Finally, the game ends with a closing message.

INPUT :

```
import java.util.Random;
import java.util.Scanner;

public class NumberGame {
    public static void main(String[] args){

        System.out.println("!!! Welcome to the Number Guessing Game !!!");
        System.out.println("Choose the Number Between 1 to 100");

        Scanner sc=new Scanner (System.in);
        Random random=new Random();
```

```

int min=1;
int max=100;
int countTry=0;

int RandomNumber=random.nextInt(max-min+1)+min; // Computer Generated number
boolean condition=true;

while(condition){

    System.out.println("Enter the Number : ");
    int UserNumber=sc.nextInt(); // Input by user
    countTry++;

    if(UserNumber<RandomNumber){
        System.out.println("** Number Is Too Low, Try Again **");
    }else if(UserNumber>RandomNumber){
        System.out.println("** Number is Too High, Try Again **");
    }else{
        condition=false;
        System.out.println("*** Congratulations ! You've Gussed the Correct Number ***");
        System.out.println("You take "+countTry+" Chances to guess correct Number");
        System.out.println("PROJECT BY : RAMAYYAGARI DHANUSREE");
    }
}
}
}
}

```

OUTPUT :

```

!!! Welcome to the Number Guessing Game !!!
Choose the Number Between 1 to 100
Enter the Number :
50
** Number is Too High, Try Again **
Enter the Number :
30
** Number Is Too Low, Try Again **
Enter the Number :
45
** Number Is Too Low, Try Again **
Enter the Number :
48
** Number Is Too Low, Try Again **
Enter the Number :
49
*** Congratulations ! You've Gussed the Correct Number ***
You take 5 Chances to guess correct Number
PROJECT BY : RAMAYYAGARI DHANUSREE

```