

GUESS THE NUMBER GAME

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import java.util.*;

public class Guess_The_Number_Game
{
    public static void main(String[] args)
    {
        // TODO Auto-generated method stub
        Scanner sc = new Scanner(System.in);
        char ch = 'y';           // initialed ch = y to play game
        while(ch=='y' || ch=='Y')
        {
            GuessTheNumber(ch,sc);           // calling GuessTheNumber function
            System.out.println("Do you want to play One more game ? y/n ");
            // asking the player for one more game
            ch = sc.next().charAt(0);
        }
    }

    public static void GuessTheNumber(char ch, Scanner sc )
    {
        Scanner sc = new Scanner(System.in);
        int rand = (int) (Math.random() * (100-0)+0);
        // generates random number from 0 to 100 inclusive
        System.out.println("Random number is "+rand);
        int guess_count=0;
        System.out.println("Guess the Number : ");
        // asking the player enter the number
        int guess = sc.nextInt();
        int temp = (rand - guess);
    }
}
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//System.out.println("Diff : "+temp);
while(ch=='y' || ch=='Y')
{

    if(guess == rand) // if the guess is correct
    {
        System.out.println("Your guess is correct !!!");
        System.out.println("You guessed the number in "+(guess_count+1)+"
chances");
        // printing no of choices taken by the player to guess the number
        break;
    }
    else // if the guess is wrong
    {
        System.out.println("You guess is wrong !!!");
        if(temp <= -25)
            // if the guessed number is 25 more > than random number
            {
                System.out.println("It is too high !!!");
            }
        else if(temp >= 25 )
        {
            System.out.println("It is too low !!!");
        }
        // if the guessed number is 25 less < than random number
        }
        else
        {
            System.out.println("You are near to it !!!");
            // if the guessed number is not 25 less !< and not 25 more !>25
        }
        System.out.println("Do you want to continue

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        the game or stop?y/n");

        // after wrong guess, asking the player to continue or not
        ch = sc.next().charAt(0);
        if(ch=='n' || ch=='N')
        {
            System.exit(0);
        }
    }
    System.out.println("Guess the Number : ");
    guess = sc.nextInt();
    temp = rand - guess;
    guess_count ++;
}

//      return 0;

}

}

```