PSAP ASSIGNMENT-2

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**ASSIGNMENT : GUESS MY NUMBER**

**Problem statement:**

* In this game, computer holds a random number in its memory (say between 1 to 100).
* The user attempts to guess the number.
* Every time the user submits his guess, computer will give feedback to user, by stating
* Your guess is larger than the number you are predicting

OR

* Your guess is smaller than the number you are predicting
* This will continue till the user’s guess does not match with the actual number.
* When the users guess is correct, program will terminate with congratulations message.
* Computer will also mention number of attempts user took to guess the correct number.

**CODE:**

int main()

#include<stdio.h>

#include<math.h>

#include<time.h>

int main()

{

    int num, guess, tries = 0;

    srand(time(0));

    num = rand() % 100 + 1;

    printf("Welcome! I have a number between 1 to 100, can you guess it?\n\n");

    do

    {

        printf("Give your guess: ");

        scanf("%d", &guess);

        tries++;

        if (guess > num)

        {

            printf("Too high!\n\n");

        }

        else if (guess < num)

        {

            printf("Too low!\n\n");

        }

        else

        {

            printf("\nCorrect! You got it in %d guesses!\n", tries);

        }

    }while (guess != num);

    return 0;

}

**OUTPUT:**

