const prompt = require("prompt-sync")();

const mongoose =require("mongoose");

var username = prompt("Enter your name: ")

var rand, attempts = 0;

do{

    rand = (Math.floor(Math.random() \* 10000) + 10000).toString().substring(1);

    // console.log(rand);

// create a set to remove duplicates.

var s = new Set();

s.add(rand[0])

s.add(rand[1])

s.add(rand[2])

s.add(rand[3])

if(s.size == 4){

    break;

}

}while(true)

//Start game

console.log(`computer's random value is ${rand}`);

var start = new Date().getTime();

do{

    attempts++;

    var val = prompt("Enter the 4 digit number: ")

    if(rand == val)

    {

        console.log("You won");

         break;

    }

    var output=""

    for(var i=0; i<rand.length; i++)

    {

        for(var j=0; j<val.length; j++)

        {

            if(val[i]==rand[j])

            {

                if(i==j)

                {

                    output+="+"

                }

                else

                {

                    output+="-"

                }

            }

        }

    }

    console.log(output);

}while(true);

var end = new Date().getTime();

var time = end - start;

console.log(`You complete the game in ${attempts} attempts`)

console.log(`Time taken by ${username}  is  ${time}  ms`)

// console.log(`You completed the game in ${attempts} attempts

//             at time : ${time}ms`);

mongoose.connect("mongodb://127.0.0.1:27017/myData")

    .then(()=>console.log("connected to mongo db"))

    .catch(err => console.error("conection failed!!!...",err))

const dataSchema = new mongoose.Schema({

    username: String,

    attempts: Number,

    time: Number

});

const Data = mongoose.model("Data", dataSchema)

async function jsonData(){

    const post = new Data(

        {

            "username": username,

            "attempts": attempts,

            "time" : time

        }

    );

    const result = await post.save();

    console.log(result);

}

jsonData();

//console.log("Data Updated in DB");

**Test Case:**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Test Case ID | Test Case Description | Steps | Test Data | Expected Result | Actual Results | Status  (Pass/Fail) |
| T101 | Check whether the number given as input by the user is same as of auto generated number by program. | 1. Run the program 2. Input player name 3. Input number(s) 4. Verify given numbers match the random number | Name: Jack  Enter 4 digit number: 6270  Enter 4 digit number: 1586  Enter 4 digit number: 9864  Enter 4 digit number: 6104 | +-  --  -+  You Won  You complete the game in 4 attempts  Time taken by Jack is 28792 ms | +-  --  -+  You Won  You complete the game in 4 attempts  Time taken by Jack is 28792 ms | Pass |
| T102 | Check whether the number given as input by the user is same as of auto generated number by program. | 1. Run the program 2. Input player name 3. Input number(s) 4. Verify given numbers match the random number | Name: Lakshmi  Enter 4 digit number: 6578  Enter 4 digit number: 5421  Enter 4 digit number: 7821 | --  ++  You Won  You complete the game in 3 attempts  Time taken by Lakshmi is 11056 ms | --  ++  You Won  You complete the game in 3 attempts  Time taken by Lakshmi is 11056 ms | Pass |
| T103 | Check whether the number given as input by the user is same as of auto generated number by program. | 1. Run the program 2. Input player name 3. Input number(s) 4. Verify given numbers match the random number | Name: Surya  Enter 4 digit number: 8654  Enter 4 digit number: 9875  Enter 4 digit number: 2544  Enter 4 digit number: 8697  Enter 4 digit number: 0936 | -  -  --  You Won  You complete the game in 5 attempts  Time taken by Surya is 28824 ms | -  -  --  You Won  You complete the game in 5 attempts  Time taken by Surya is 28824 ms | Pass |