const mongoose = require('mongoose');

mongoose.connect('mongodb://127.0.0.1:27017/mongo-exercises')

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

.catch(err => console.error("could not connect to mongodb...", err))

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

const t0 = performance.now();

var rand,attempts = 0;

do{

rand = (Math.random()\*10000).toFixed(0);

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);

console.log(rand);

var userName="TEJA VANKAYALAPATI";

do{

attempts++;

var val = prompt("Enter a 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(rand[i]==val[j])

{

if(i==j)

output+="+";

else

output+="-";

}

}

}

console.log(output);

}while(true);

const t1 = performance.now();

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

//creating json object on our data

jsonObj = {

"userName": userName,

"attempts": attempts

}

console.log(jsonObj);

console.log(`TOTAL TIME TAKEN TO EXECUTE ${t1 - t0} milliseconds.`);

Test cases:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 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: Rohan  Enter a 4 digit number: 9563  Enter a 4 digit number: 4875  Enter a 4 digit number: 2584  Enter a 4 digit number: 2891 | -  +  +-  You Won!!  You completed the game in 4 attempts  TOTAL TIME TAKEN TO EXECUTE 427324.7527999878 milliseconds. | -  +  +-  You Won!!  You completed the game in 4 attempts  TOTAL TIME TAKEN TO EXECUTE 427324.7527999878 milliseconds. | 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: Jeevan  Enter a 4 digit number: 6578  Enter a 4 digit number: 5421  Enter a 4 digit number: 7821 | --  ++  You Won!!  You completed the game in 3 attempts  TOTAL TIME TAKEN TO EXECUTE 625478.14325678 milliseconds. | --  ++  You Won!!  You completed the game in 3 attempts  TOTAL TIME TAKEN TO EXECUTE 625478.14325678 milliseconds. | 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: Sanjay  Enter a 4 digit number: 8654  Enter a 4 digit number: 9875  Enter a 4 digit number: 2544  Enter a 4 digit number: 8697  Enter a 4 digit number: 0936 | -  -  --  You Won!!  You completed the game in 5 attempts  TOTAL TIME TAKEN TO EXECUTE 894217.87563248 milliseconds. | -  -  --  You Won!!  You completed the game in 5 attempts  TOTAL TIME TAKEN TO EXECUTE 894217.87563248 milliseconds. | Pass |