mongoose = require("mongoose");

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

const user = prompt(" please Enter your name:");

var rand, attempts = 0;

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

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);

do {

attempts++;

var val = prompt("please enter 4 digit number:");

if (rand == val) {

console.log(" Boya!! ");

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);

console.log("You completed the game in " + attempts + "attempts");

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

var time = end - start;

var ms = time,

min = Math.floor((time / 1000 / 60) << 0),

sec = Math.floor((time / 1000) % 60);

console.log(`Time-${min}:${sec}`);

mongoose.connect('mongodb://127.0.0.1:27017/game')

.then(() => console.log('connected to mongodb'))

.catch(err => console.log('could not connected to mongodb', err))

const gameSchema = new mongoose.Schema({

user: String,

attempts: Number,

time: {

min: Number,

sec: Number,

}

});

const Data = mongoose.model('Data', gameSchema);

async function createdata() {

const gamedata = new Data({

"user name": user,

"NO of Attempts": attempts,

time: {

"minutes": min,

"seconds": sec

}

});

const result = await gamedata.save();

console.log(result);

}

createdata();

Test cases:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| SL.NO | Description | process | Test data | Expected result | Actual result | status |
| 1 | Match the system generated value with the user given value | Run the program  Input player name  Input number  Verify the number | Name:Thilak  Please enter the four digit number: 1458  the four digit number: 1458  the four digit number: 1458 | -  +-  ++++  Boya!!  Name:Thilak  Time:0:58  Total number of attempts:  3 | -  +-  ++++  Boya!!  Name:Thilak  Time:0:58  Total number of attempts:  3 | Passed |
| 2 | Match the system generated value with the user given value | Run the program  Input player name  Input number | Name:ruthvik  the four digit number: 1568  the four digit number: 1568 | -  +-  Boya!!  Name:ruthvik  Time:0:45Total number of attempts:  2 | -  +-  Boya!!  Name:ruthvik  Time:0:45Total number of attempts:  2 | Passed |