Gramin Technical And Management Campus Nanded

Department Of Computer Engineering

MICRO PROJECT

Academic Year

2021-22

Math Game

Course : Client Side Scripting Language Course Code : 22519

Submitted By

Jadhav Kiran Datta

Submitted To

Mr. Wahe Sir



MAHARASHTRA STATE BOARD OF TECHNICAL EDUCATION

Certificate

This is to certify that M	r. /Ms. Jadhav Kiran Dat	<u>ta</u> Roll No	. 013 (2 nd	Shift) of 1	Fifth	
Semester of Diploma i	n Computer Engineering	of Institute,	Gramin	Technical	And	
Management Campus Na	anded has completed the M	icro Project	satisfacto	rily in Subj	ect -	
Client Side Scripting Language (22519) for the academic year 2021-2022 as prescribed						
in	the			curricu	ılum	

Place: Vishnupuri Nanded.	Enrollment No:	<u>-</u> _
Date:	Exam Seat No: _	
Subject Teacher	Head of the Department	Principal

Seal of Institution

Coding:

HTML

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UACompatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initialscale=1.0">
  <title>Math Game</title>
  <link rel="stylesheet" href="style.css">
</head>
<body>
  <div id="container">
    <div id="score">Score: <span id="scoreValue"></span></div>
    <div id="correct">Correct</div>
    <div id="wrong">Try Again!</div>
    <div id="question" class="text-center"></div>
    <div id="information" class="text-center">Click on the correct answer!</div>
    <div id="choices">
       <div id="box1" class="box text-center"></div>
       <div id="box2" class="box text-center"></div>
       <div id="box3" class="box text-center"></div>
       <div id="box4" class="box text-center"></div>
    </div>
    <div id="startreset" class="text-center">Start Game</div>
    <div id="timeremaining" class="text-center">Time Remaining: <span</pre>
id="timeremainingValue"></span></div>
    <div id="gameover" class="text-center"></div>
  </div>
  <script src="main.js"></script>
</body>
</html>
```

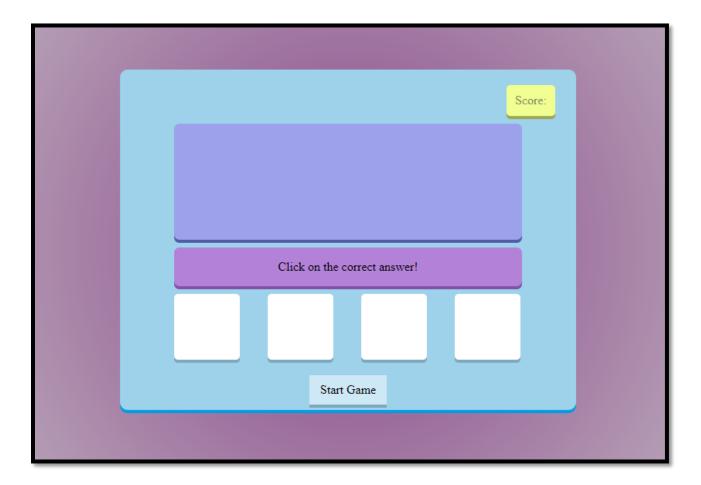
JavaScript

```
// Global Variables
  var playing = false;
  var score;
  var timeremaining;
  var countdown;
  var correctAns;
// Register Events
document.getElementById("startreset").addEventListener("click", play);
document.getElementById("box1").addEventListener("click", checkAnswer);
document.getElementById("box2").addEventListener("click", checkAnswer);
document.getElementById("box3").addEventListener("click", checkAnswer);
document.getElementById("box4").addEventListener("click", checkAnswer);
function play(e) {
  if(playing === true) {
    // You want to reset
    window.location.reload();
  } else {
    // You want to start the play
    playing = true;
    this.innerHTML = "Reset Game";
    score = 0;
    setText("scoreValue", score);
    hide("gameover");
    timeremaining = 60;
    setText("timeremainingValue", timeremaining);
    show("timeremaining");
    startCountdown();
    generateQA();
  }
```

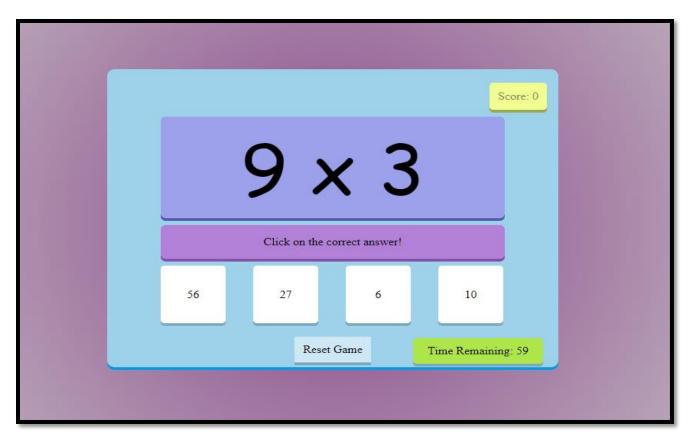
```
function generateQA() {
  var x = (1 + Math.round(Math.random() * 9));
  var y = (1 + Math.round(Math.random() * 9));
  correctAns = x * y;
  let quesString = \S\{x\} x \S\{y\};
  setText("question", quesString);
  var correctPos = (1 + Math.round(Math.random() * 3));
  setText(`box${correctPos}`, correctAns);
  var answers =[correctAns];
  for(i=1; i<5; i++) {
    var wrongAns;
    if(i != correctPos) {
       do {
         wrongAns = (1 + Math.round(Math.random() * 9)) * (1 + Math.round(Math.random() * 9));
       } while(answers.indexOf(wrongAns) != -1);
       setText(`box${i}`,wrongAns);
       answers.push(wrongAns);
  }
function checkAnswer() {
  if(playing === true) {
    if(this.innerHTML == correctAns) {
       score++;
       setText("scoreValue", score);
       show("correct");
       hide("wrong");
       setTimeout(function() {
       hide("correct");
     }, 500);
    generateQA();
  } else {
    show("wrong");
       hide("correct");
       setTimeout(function() {
```

```
hide("wrong");
       }, 500);
    }
  }
function startCountdown(){
  countdown=setInterval(function(){
    timeremaining -=1;
    setText("timeremainingValue",timeremaining);
    if(timeremaining<=0){
      clearInterval(countdown);
       playing=false;
       show("gameover");
      hide("timeremaining");
      setText("scoreValue","");
      setText("startreset","Start Game");
      let msg=`Game over!Your score:${score}`;
       setText("gameover",msg);
    }
  },1000)
/* HELPER FUNCTIONS */
function setText(id, text) {
document.getElementById(id).innerHTML = text;
function show(id) {
document.getElementById(id).style.display = 'block';
function hide(id) {
document.getElementById(id).style.display = 'none';
```

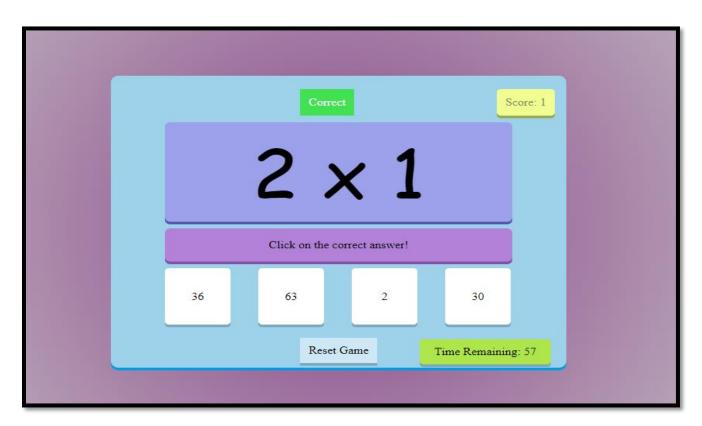
Screenshots:



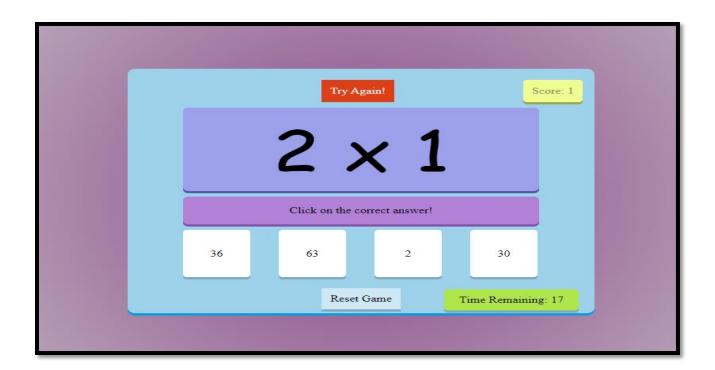
WHEN A QUESTION IS GENERATED:



WHEN CORRECT ANSWER IS SELECTED:



WHEN AN INCORRECT ANSWER IS SELECTED:



WHEN TIMER STOPS AND FINAL SCORE IS DISPLAYED:

