



Department of Computer Engineering 01CE0510 – Advanced Web Technology – Lab Manual

Practical 1:- Build a "Guess the Number Game" using JavaScript.

Index.html

```
<!DOCTYPE html>
<html lang="en">
<head>
   <meta charset="UTF-8">
   <meta name="viewport" content="width=device-width, initial-scale=1.0">
   <title>Practical 1</title>
</head>
<style>
   .table{
      align-items: center;
      text-align: center;
     padding: auto;
   }
</style>
<body>
   <h1>Guess the Number</h1>
         <form action="#">
         <input type="text" id="txt1" placeholder="Enter number">
            <input type="submit" value="start Guess" id="btn1">
            <input type="submit" onclick="reset()" value="Reset"</pre>
id="btn2">
            </form>
      <div id="box">
            Previous Guesses: <span id="hh1"></span>
            Remaining Count: <span id="hh2"></span>
            </div>
```

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```
<script src="jquery.js"></script>
    <script src="app.js"></script>
</body>
</html>
Game.js
var randomNumber=parseInt((Math.random()*100)+1);
var userInput=document.getElementById('txt1');
var submitBtn=document.getElementById('btn1');
var guessNo=document.getElementById('hh1');
var remainingCount=document.getElementById('hh2');
var lowHigh=document.getElementById('lowHigh');
var parentDiv=document.getElementById('box');
var newResetButton=document.createElement('button');
var playGame=true;
var random = document.getElementById('random');
var previousGuesses=[];
var numberGuess=1;
var reset = document.getElementById('btn2');
$("#btn2").hide();
if (playGame)
    submitBtn.addEventListener('click', function(e)
        e.preventDefault();
        var guess=parseInt(userInput.value);
        validateGuess(guess);
    });
    reset.addEventListener('click', function(e) {
        e.preventDefault();
        guessNo.innerHTML='';
        remainingCount.innerHTML='';
        random.innerHTML='';
        lowHigh.innerHTML='';
        parentDiv.removeChild(newResetButton);
        previousGuesses = [];
    });
}
function validateGuess(guess)
    if(isNaN(guess)){
        alert('please enter number ');
    else if(guess<1 || guess>100){
        alert('number must be in between 1 to 100');
    else {
        previousGuesses.push(guess);
        if(numberGuess==5)
        {
            displayGuess (guess);
            endGame();
        }
```

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```
else {
            displayGuess (guess);
            checkGuess (quess);
        }
function displayGuess (guess)
    $("#btn2").show();
    guessNo.innerHTML+=' '+quess;
    userInput.value='';
    numberGuess++;
    remainingCount.innerHTML=6-numberGuess;
}
function checkGuess(guess)
    if(guess==randomNumber)
        lowHigh.innerHTML='You guess correct number '+randomNumber;
    else if(guess<randomNumber)</pre>
        lowHigh.innerHTML='Too Low!Try again';
    else if(guess>randomNumber)
        lowHigh.innerHTML='Too High!Try again';
function endGame()
    userInput.value='';
    userInput.setAttribute('disabled','');
    newResetButton.innerHTML='StartNewGame';
    newResetButton.id="newGame";
    parentDiv.appendChild(newResetButton);
    random.innerHTML='Random Number: '+randomNumber;
    $("#btn2").hide();
    newGame();
}
function newGame()
    document.getElementById('newGame').addEventListener('click',function()
    {
        numberGuess = 1;
        randomNumber=parseInt((Math.random()*100)+1);
        userInput.removeAttribute('disabled');
        quessNo.innerHTML='';
        remainingCount.innerHTML='';
        random.innerHTML='';
        lowHigh.innerHTML='';
        parentDiv.removeChild(newResetButton);
    });
}
```

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Output:-

Guess the Number Enter number Start Guess Previous Guesses: 50 70 60 55 58 Remaining Count: 0 Too Low!Try again Random Number: 56

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