Shubarna Sunuwar 0781476

Part 1.

Search:

Upload File:

Choose File No file chosen

Submit

Without searching

Original String: A story within a story, also referred to as an embedded narrative, is a literary device in which a character within a story becomes the narrator of a second story (within the first one).

Number of words: 34
Number of 'a's: 16
Punctuation count: 5

Words in descending order: within within which to the the story, story story story second referred one). of narrator narrative, literary is in first embedded device character becomes as an also A a a a a a (within

Middle third: ive, is a literary device in which a character within a story

Original String: [1] Multiple layers of stories within stories.

Number of words: 6
Number of 'a's: 1
Punctuation count: 3

Words in descending order: within stories. stories of Multiple layers [1]

Middle third: yers of stories

Original String: Phishing is a type of cyberattack that uses fraudulent emails, text messages, phone calls or websites to trick people into sharing sensitive data, downloading malware or otherwise exposing themselves to cybercrime.

Number of words: 31
Number of 'a's: 14
Punctuation count: 4

Words in descending order: websites uses type trick to to themselves that text sharing sensitive phone Phishing people otherwise or or of messages, malware is into fraudulent exposing emails, downloading data, cybercrime. cyberattack calls a

Middle third: sages, phone calls or websites to trick people into sharing sensitive d

Search:

Upload File:

Choose File No file chosen

Submit

With searching

Search Result: A **story** within a **story**, also referred to as an embedded narrative, is a literary device in which a character within a **story** becomes the narrator of a second **story** (within the first one).

Number of lines without the search term '**story**': 2

Search:

Upload File:

Choose File   No file chosen

Submit

Code

```php
<?php
if (isset($_POST['submit'])) {
    $file = $_FILES['file']['tmp_name'];
    $search = isset($_POST['search']) ? $_POST['search'] : '';

    if (is_uploaded_file($file)) {
        $fileread = fopen($file, 'r');
        $lines = array();
        $matched = array();
        $unmatchedCount = 0;

        // Read file and storing
        while (!feof($fileread)) {
            $line = trim(fgets($fileread));
            if ($line !== "") {
                $lines[] = $line;
            }
        }
        fclose($fileread);

        // if no search
        if (empty($search)) {
            foreach ($lines as $line) {
                echo "<span><strong>Original String: $line</strong></span>";
                $wordCount = str_word_count($line);
                echo "<div>Number of words: $wordCount</div>";

                // Count letter 'a'
                $aCount = substr_count(strtolower($line), 'a');
                echo "<div>Number of 'a's: $aCount</div>";

                // Count punctuation
                $punct_count = 0;
                for ($i = 0; $i < strlen($line); $i++) {
                    $ascii = ord($line[$i]);
                    if (($ascii >= 33 && $ascii <= 47) || ($ascii >= 58 && $ascii <= 64) ||
                        ($ascii >= 91 && $ascii <= 96) || ($ascii >= 123 && $ascii <= 126)) {
```

```php
                    $punct_count++;
                }
            }
            echo "<div>Punctuation count: $punct_count</div>";

            // Sort words in descending order
            $words = explode(' ', $line);
            usort($words, function ($a, $b) {
                return strtolower($b) <=> strtolower($a);
            });
            echo "<div>Words in descending order: " . implode(' ', $words) . "
</div>";

            // Middle third of the string
            $length = strlen($line);
            $third = floor($length / 3);
            $middleStart = $third;
            echo "<div>Middle third: " . substr($line, $middleStart, $third) .
"</div>";
        }
    } else {
        // If a search term is provided, output only matching lines
        foreach ($lines as $line) {
            if (stripos($line, $search) !== false) {
                // Highlight the search term
                $highlighted = str_ireplace($search, "<span
class='highlight'>$search</span>", $line);
                echo "<div>Search Result: $highlighted</div>";
                $matched[] = $line;
            } else {
                $unmatchedCount++;
            }
        }

        // Output the count of lines without the search term
        echo "<div>Number of lines without the search term
'<strong>$search</strong>': $unmatchedCount</div>";
    }
}
?>

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>File Search</title>
    <link rel="stylesheet" href="./styles/part1.css">
    <style>
        .highlight {
            background-color: yellow;
            font-weight: bold;
        }
```

```
        </style>
    </head>
    <body>
        <form class="formcontainer" action="part1.php" method="post"
enctype="multipart/form-data">
            <div>
                <label for="searchlabel">Search: </label>
                <input type="text" name="search" id="searchlabel"><br>
            </div>
            <div>
                <label for="filelabel">Upload File: </label>
                <input type="file" name="file" id="filelabel">
            </div>
            <input type="submit" name="submit" value="Submit">
        </form>
    </body>
    </html>
```

Part 2

Must choose a answer

Feedback after the quiz is finished

Your Score: 4 out of 5

Great job!

Feedback:

Select the wrongly spelt word?
Your answer: calander

Hardware is any part of the computer that has a physical structure that can be seen and touched?
Your answer: True

_____ devices accept data and instructions from the user?
Your answer: Output
Correct answer: Input

Which element has the chemical symbol "O"?
Your answer: Oxygen

_____ is the processed form of data which is organized, meaningful, and useful.
Your answer: Information

Restart Quiz

Sql

Showing rows 0 - 11 (12 total, Query took 0.0006 seconds.)

```sql
SELECT * FROM `scores`
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

name	email	score
aesef	shubu@gmail.com	9
shubu2	shubarnasunuwar@trentu.ca	5
aesef	shubarnasunuwar@trentu.ca	15
aesef	tome@gmail.com	9
shubu	shubarnasunuwar@trentu.ca	4
shubu	tome@gmail.com	16
shubu	shubusunuwar@gmail.com	5
aesef	shubusunuwar@gmail.com	17
shubu	shubusunuwar@hotmail.com	16
shubu	shubusunuwar@hotmail.com	8
shubu	shubarnasunuwar@trentu.ca	9
shubu	shubusunuwar@gmail.com	9

Query results operations

Print   Copy to clipboard   Export   Display chart   Create view

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action		
1	name	varchar(100)	latin1_swedish_ci		No	None			Change	Drop	More
2	email	varchar(100)	latin1_swedish_ci		No	None			Change	Drop	More
3	score	int(11)			No	None			Change	Drop	More

Check all   With selected: Browse   Change   Drop   Primary   Unique   Index   Spatial   Fulltext

Print   Propose table structure   Move columns   Normalize

Code:

Code:

Quiz code

```php
<?php
session_start();

// Initializing the quiz
if (!isset($_SESSION['questions'])) {
    $_SESSION['score'] = 0;
    $_SESSION['feedback'] = array();
    $_SESSION['curr_qns'] = 0;

    // Defining questions and answers
    $_SESSION['questions'] = [
        [
            'question' => 'Select the wrongly spelt word?',
            'options' => ['calander', 'career', 'callous', 'carriage'],
            'answer' => 'calander'
        ],
        [
            'question' => 'Hardware is any part of the computer that has a
physical structure that can be seen and touched?',
            'options' => ['True', 'False', 'Not sure', 'None of the above'],
            'answer' => 'True'
        ],
        [
            'question' => '_____ devices accept data and instructions from the
user?',
            'options' => ['Output', 'Input', 'Components of hardware', 'Storage'],
            'answer' => 'Input'
        ],
        [
            'question' => 'Which element has the chemical symbol "O"?',
            'options' => ['Oxygen', 'Gold', 'Silver', 'Hydrogen'],
            'answer' => 'Oxygen'
        ],
        [
            'question' => '_____ is the processed form of data which is organized,
meaningful, and useful.',
            'options' => ['Software', 'Data', 'Information', 'None of the above'],
            'answer' => 'Information'
        ]
    ];
}

// Handle user responses
if (isset($_POST['submit'])) {
    $curr_qns = $_SESSION['curr_qns'];
    $user_answer = $_POST['answer'];
    $correct_answer = $_SESSION['questions'][$curr_qns]['answer'];
```

```php
        // Checking if the answer is correct
        if ($user_answer === $correct_answer) {
            $_SESSION['score']++;
            $_SESSION['feedback'][$curr_qns] = [
                'question' => $_SESSION['questions'][$curr_qns]['question'],
                'user_ans' => $user_answer,
                'correct' => true
            ];
        } else {
            $_SESSION['feedback'][$curr_qns] = [
                'question' => $_SESSION['questions'][$curr_qns]['question'],
                'user_ans' => $user_answer,
                'correct' => false,
                'correct_answer' => $correct_answer
            ];
        }

        // Move to the next question
        $_SESSION['curr_qns']++;

        // Check if quiz is over and redirect to results
        if ($_SESSION['curr_qns'] >= count($_SESSION['questions'])) {
            header("Location: results.php");
            exit;
        }
    }

// Show current question
$curr_qns = $_SESSION['curr_qns'];
$curr_qnshtml = $_SESSION['questions'][$curr_qns];
?>

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <title>Quiz - Question <?= $curr_qns + 1 ?></title>
    <link rel="stylesheet" href="./styles/part2.css">
</head>
<body>
    <h1>Question <?= $curr_qns + 1 ?>:</h1>
    <h2><?= $curr_qnshtml['question'] ?></h2>
    <form method="POST">
        <?php foreach ($curr_qnshtml['options'] as $option): ?>
            <input type="radio" name="answer" value="<?= $option ?>" required> <?=
$option ?><br>
        <?php endforeach; ?>
        <input name="submit" type="submit" value="Submit">
    </form>
</body>
</html>
```

Result code

```php
<?php
session_start();

if (!isset($_SESSION['questions'])) {
    header("Location: part2.php");
    exit;
}

$score = $_SESSION['score'];
$total_questions = count($_SESSION['questions']);
$percentage = ($score / $total_questions) * 100;

// Feedback messages based on score
if ($percentage === 100) {
    $msg = "AAA STARRRRR!";
} elseif ($percentage >= 80) {
    $msg = "Great job!";
} elseif ($percentage >= 50) {
    $msg = "Barely Passed";
} else {
    $msg = "Go study!!!";
}

// Display results
?>
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <title>Quiz Results</title>
    <link rel="stylesheet" href="./styles/part2.css">
</head>
<body>
    <h2>Your Score: <?= $score ?> out of <?= $total_questions ?></h2>
    <h3><?= $msg?></h3>

    <h4>Feedback:</h4>
    <ul>
        <?php foreach ($_SESSION['feedback'] as $feedback): ?>
            <li class="<?= $feedback['correct'] ? 'correct' : 'incorrect' ?>">
                <strong><?= $feedback['question'] ?></strong><br>
                Your answer: <?= $feedback['user_ans'] ?><br>
                <?php if (!$feedback['correct']): ?>
                    Correct answer: <?= $feedback['correct_answer'] ?><br>
                <?php endif; ?>
            </li>
        <?php endforeach; ?>
    </ul>

    <a href="part2.php">Restart Quiz</a>
```
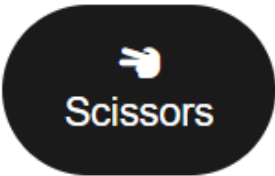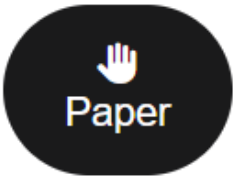
```php
    <?php
    // Clear session data
    session_unset();
    session_destroy();
    ?>
</body>
</html>
```
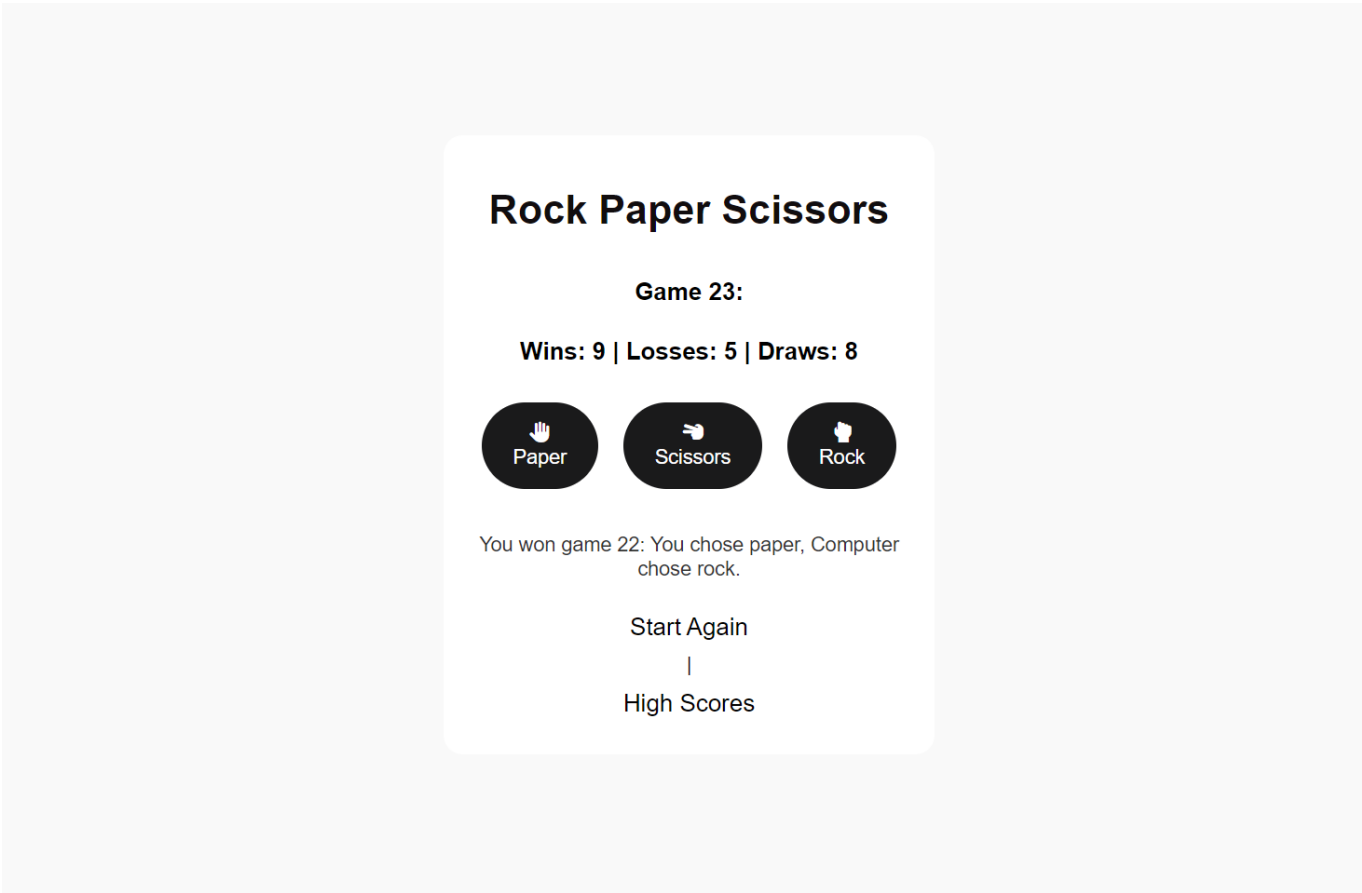
Part 3

Overall UI

Rock Paper Scissors

Game 1:
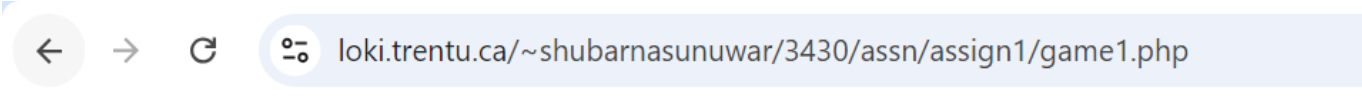
Wins: 0 | Losses: 0 | Draws: 0

Paper   Scissors   Rock

Start Again

|

High Scores

Midgame

Rock Paper Scissors

Game 23:

Wins: 9 | Losses: 5 | Draws: 8

Paper   Scissors   Rock

You won game 22: You chose paper, Computer chose rock.

Start Again
|
High Scores

Redirects to gameover page after 10 losses

loki.trentu.ca/~shubarnasunuwar/3430/assn/assign1/game1.php

10 Losses.Game Over!

Name and valid email must be entered

Game Over

Name:

You must enter a name.

Email:

You must enter an email.

Save Score

Game Over

Name:

aesef

Email:

qsqsqq

⚠ Please include an '@' in the email address. 'qsqsqq' is missing an '@'.
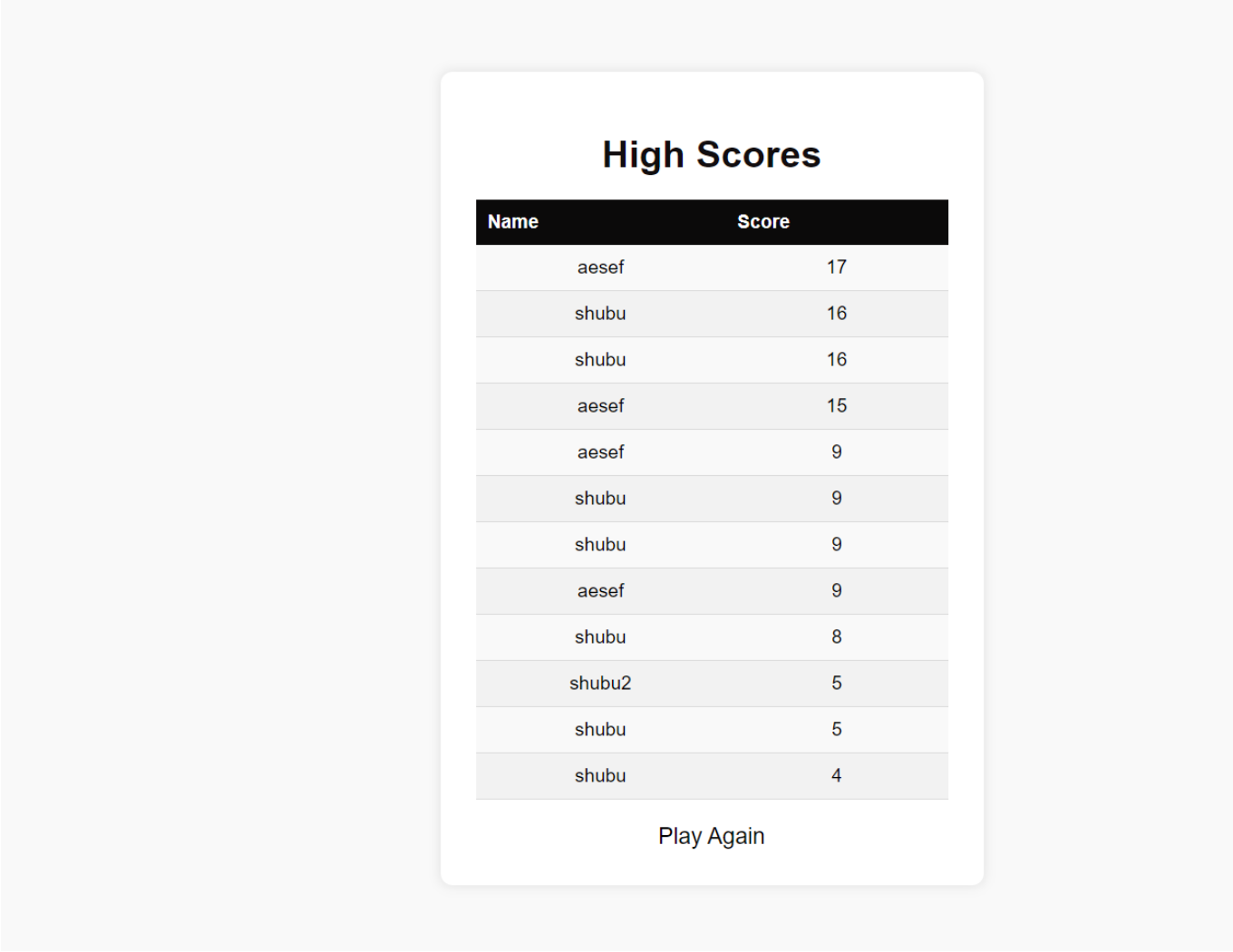
Game Over

Name:

You must enter a name.

Email:

Save Score

This is the highscore page

Code

Game code

```php
<?php
session_start();

if ($_SERVER['REQUEST_METHOD'] === 'GET') {
    $_SESSION['wins'] = 0;
    $_SESSION['losses'] = 0;
    $_SESSION['draws']= 0;
    $_SESSION['game_num'] = 1;
    $_SESSION['feedback'] = '';
}


if ($_SERVER['REQUEST_METHOD'] === 'POST') {
    $choices = ['paper', 'scissors', 'rock'];
    $userchoice=$_POST['choice'];
    $randnum=array_rand($choices);
    $compchoice=$choices[$randnum];
    if($userchoice===$compchoice){
        $result = "tied";
```

```php
        $_SESSION['draws']++;
    }
    elseif(
        ($userchoice === 'rock' && $compchoice === 'scissors') ||
        ($userchoice === 'scissors' && $compchoice === 'paper') ||
        ($userchoice === 'paper' && $compchoice === 'rock')
    ){
        $result = "won";
        $_SESSION['wins']++;
    }
    else{
        $result = "lost!";
        $_SESSION['losses']++;
    }
    $_SESSION['game_num']++;
    $previousgame=$_SESSION['game_num']-1;
    $_SESSION['feedback'] = "You $result game $previousgame: You chose
$userchoice, Computer chose $compchoice.";

    if($_SESSION['losses']==10){

        echo "<h1> 10 Losses.Game Over!";
        header('Refresh: 5; url=game_over.php');
        exit;
    }
}

?>
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Rock Paper Scissors</title>
    <link rel="stylesheet" href="./styles/main.css">
    <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-
awesome/6.0.0-beta3/css/all.min.css">
</head>
<body>
    <div class="gamecontainer">
        <h1>Rock Paper Scissors</h1>
        <h2>Game <?= $_SESSION['game_num']?>: </h2>
        <h2>Wins: <?=$_SESSION['wins']?> | Losses: <?=$_SESSION['losses']?> |
Draws: <?=$_SESSION['draws']?></h2>
        <form action="game1.php" method="POST">
            <div class="form-buttons">
                <button type="submit" name="choice" value="paper">
                    <i class="fa-solid fa-hand"></i> Paper
                </button>
                <button type="submit" name="choice" value="scissors">
                    <i class="fa-solid fa-hand-scissors"></i> Scissors
                </button>
                <button type="submit" name="choice" value="rock">
                    <i class="fa-solid fa-hand-back-fist"></i> Rock
```

```
                    </button>
                </div>
            </form>
            <p><?php echo $_SESSION['feedback']; ?></p>
            <a href="game1.php">Start Again</a> | <a href="high_scores.php">High
Scores</a>
        </div>
    </body>
</html>
```

Game Over code

```php
<?php
session_start();

$name=$_POST['name'] ?? "";
$email=$_POST['email'] ?? "";
$errors=array();


//when form is submitted
if (isset($_POST['submit'])) {

    if (empty($name)) {
        $errors['name'] = true;
    }

    if (empty(filter_var($email, FILTER_VALIDATE_EMAIL))) {
        $errors['email'] = true;
    }
    require_once './includes/library.php';
    $pdo = connectdb();

    if (empty($errors)) {
        $insert = "INSERT INTO `scores` (`name`,`email`, `score`) VALUES (?,?,?)";
        $stmt= $pdo->prepare($insert);
        $stmt->execute([$name, $email, $_SESSION['wins']]);

        header('Location: high_scores.php');
        exit;
    } else {
        $error = 'Please provide a valid name and email.';
    }



}
?>
```

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Game Over</title>
    <link rel="stylesheet" href="./styles/main.css">
</head>
<body>
    <div class="formcontainer">
        <h1>Game Over</h1>
        <form method="post" action="game_over.php">
            <div>
                <label for="namelabel">Name:</label>
                <input type="text" id="namelabel" name="name">
                <span class="error <?= !isset($errors['name']) ? 'hidden' : '' ?
>">
                You must enter a name.
                </span>
            </div>

            <div>
                <label for="emaillabel">Email:</label>
                <input type="email" id="emaillabel" name="email">
                <span class="error <?= !isset($errors['email']) ? 'hidden' : '' ?
>">
                You must enter an email.
                </span>
            </div>

            <input type="submit" name="submit" value="Save Score">
        </form>
    </div>
</body>
</html>
```

High score code

```php
<?php

require_once './includes/library.php';
$pdo = connectdb();

$select="SELECT name, score FROM scores ORDER BY score DESC LIMIT 20";
$stmt= $pdo->prepare($select);
$stmt->execute();
$results = $stmt->fetchAll();
?>
```

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <title>High Scores</title>
    <link rel="stylesheet" href="./styles/main.css">
</head>
<body>
    <div class="scorescontainer">
        <h1>High Scores</h1>
        <table>
            <thead>
                <tr>
                    <th>Name</th>
                    <th>Score</th>
                </tr>
            </thead>
            <tbody>
                <?php foreach ($results as $score): ?>
                    <tr>
                        <td><?php echo $score['name']; ?></td>
                        <td><?php echo $score['score']; ?></td>
                    </tr>
                <?php endforeach; ?>
            </tbody>
        </table>

        <a href="game1.php">Play Again</a>
    </div>
</body>
</html>
```