Assignment No:5

Code:

Index.html

```html
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Destination Explorer</title>
  <style>
  body {
  font-family: Arial, sans-serif;
  margin: 0;
  padding: 0;
  background-color: #f2f2f2;
}

.container {
  max-width: 600px;
  margin: 50px auto;
  padding: 20px;
  background-color: #fff;
  border-radius: 8px;
  box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
}

h1 {
  text-align: center;
  color: #333;
}

form {
margin-left: 200px;
}

label {
  font-weight: bold;
  display: inline-block;
  margin-bottom: 5px;
}

input[type="radio"] {
  margin-right: 5px;
}

button {
  padding: 10px 20px;
```

```css
    background-color: #007bff;
    color: #fff;
    border: none;
    border-radius: 4px;
    cursor: pointer;
    transition: background-color 0.3s ease;
}

button:hover {
    background-color: #0056b3;
}

    </style>
</head>
<body>
    <div class="container">
        <h1>Destination Explore</h1>
        <form action="process.php" method="post">
            <label for="destination">Select Destination Type:</label><br>
            <input type="radio" id="city" name="destination_type" value="city">
            <label for="city">City</label><br>
            <input type="radio" id="beach" name="destination_type" value="beach">
            <label for="beach">Beach</label><br>
            <input type="radio" id="mountain" name="destination_type" value="mountain">
            <label for="mountain">Mountain</label><br><br>
            <button type="submit">Explore</button>
        </form>
    </div>
</body>
</html>
```

Process.php

```php
<?php

// Define the base class Destination
class Destination {
    protected $name;
    protected $location;
    protected $description;
    protected $climate;

    public function __construct($name, $location, $description, $climate) {
        $this->name = $name;
        $this->location = $location;
        $this->description = $description;
        $this->climate = $climate;
    }
```

```php
    public function displayDetails() {
        echo "<div style=' max-width: 600px;
        margin: 50px auto;
        margin-bottom:0px;
        padding: 20px;
        padding-bottom:0px;
        background-color: #fff;
        border-radius: 8px;
        box-shadow:2px 2px 10px white
        '>";
        echo "<h2>{$this->name}</h2>";
        echo "<p><strong>Location:</strong> {$this->location}</p>";
        echo "<p><strong>Description:</strong> {$this->description}</p>";
        echo "<p><strong>Climate:</strong> {$this->climate}</p>";
        echo "</div>";
    }
}

// Define subclass CityDestination inheriting from Destination
class CityDestination extends Destination {
    private $population;
    private $famousLandmarks;

    public function __construct($name, $location, $description, $climate, $population, $famousLandmarks) {
        parent::__construct($name, $location, $description, $climate);
        $this->population = $population;
        $this->famousLandmarks = $famousLandmarks;
    }

    public function displayDetails() {
        parent::displayDetails();
        echo "<div style=' max-width: 600px;
        margin: 50px auto;
        margin-top:0px;
        padding: 20px;
        padding-top:0px;
        background-color: #fff;
        border-radius: 8px;
     '>"; echo "<p><strong>Population:</strong> {$this->population}</p>";
        echo "<p><strong>Famous Landmarks:</strong> {$this->famousLandmarks}</p>";
        echo "</div>";
    }
}

// Define subclass BeachDestination inheriting from Destination
class BeachDestination extends Destination {
    private $beachActivities;
    private $waterTemperature;
```

```php
    public function __construct($name, $location, $description, $climate, $beachActivities, $waterTemperature)
{
        parent::__construct($name, $location, $description, $climate);
        $this->beachActivities = $beachActivities;
        $this->waterTemperature = $waterTemperature;
    }

    public function displayDetails() {
        parent::displayDetails();
        echo "<div style=' max-width: 600px;
        margin: 50px auto;
        margin-top:0px;
        padding: 20px;
        padding-top:0px;
        background-color: #fff;
        border-radius: 8px;
        '>";
        echo "<p><strong>Beach Activities:</strong> {$this->beachActivities}</p>";
        echo "<p><strong>Water Temperature:</strong> {$this->waterTemperature}</p>";
        echo "</div>";
    }
}

// Define subclass MountainDestination inheriting from Destination
class MountainDestination extends Destination {
    private $hikingTrails;
    private $peakElevation;

    public function __construct($name, $location, $description, $climate, $hikingTrails, $peakElevation) {
        parent::__construct($name, $location, $description, $climate);
        $this->hikingTrails = $hikingTrails;
        $this->peakElevation = $peakElevation;
    }

    public function displayDetails() {
        parent::displayDetails();
        echo "<div style=' max-width: 600px;
        margin: 50px auto;
        margin-top:0px;
        padding: 20px;
        padding-top:0px;
        background-color: #fff;
        border-radius: 8px;
        '>";
        echo "<p><strong>Hiking Trails:</strong> {$this->hikingTrails}</p>";
        echo "<p><strong>Peak Elevation:</strong> {$this->peakElevation}</p>";
        echo "</div>";
    }
```

```php
    }

    // Process form submission
    if ($_SERVER["REQUEST_METHOD"] == "POST") {
        // Check if destination type is selected
        if (isset($_POST['destination_type'])) {
            $destination_type = $_POST['destination_type'];

            // Create destination object based on the selected type
            switch ($destination_type) {
                case 'city':
                    $destination = new CityDestination("New York City", "United States", "The city that never sleeps",
    "Humid subtropical climate", "8.4 million", "Statue of Liberty, Central Park");
                    break;
                case 'beach':
                    $destination = new BeachDestination("Goa", "India"
    "A tropical paradise", "Tropical climate", "Swimming, surfing, snorkeling", "Around 80°F");
                    break;
                case 'mountain':
                    $destination = new MountainDestination("Manali", "India", "A majestic mountain range", "Alpine
    climate", "Various hiking trails", "4,634 meters (Matterhorn)");
                    break;
                default:
                    echo "Invalid destination type";
            }

            // Display destination details
            $destination->displayDetails();
        } else {
            echo "<div style=' max-width: 600px;
            margin: 50px auto;
            margin-top:0px;
            padding: 20px;
            padding-top:0px;
            background-color: #fff;
            border-radius: 8px;
            color:red;
        border:2px solid black;
        font-size:20px;
        text-align:center;

        '>";
            echo "<p>Please select a destination type</p>";
            echo "</div>";
        }
    }
    ?>
```
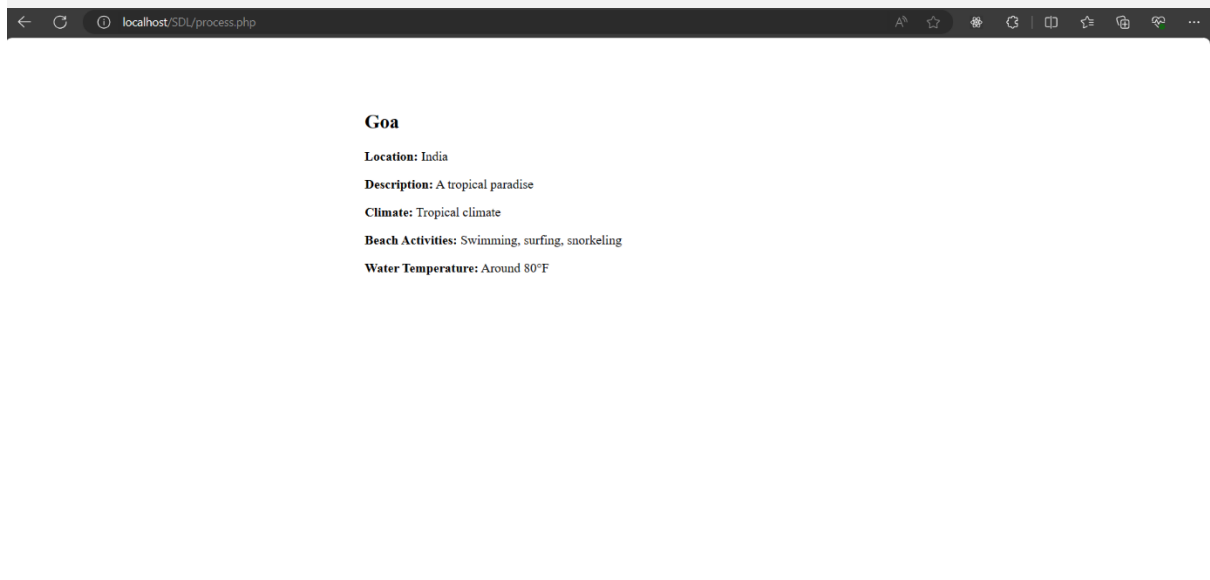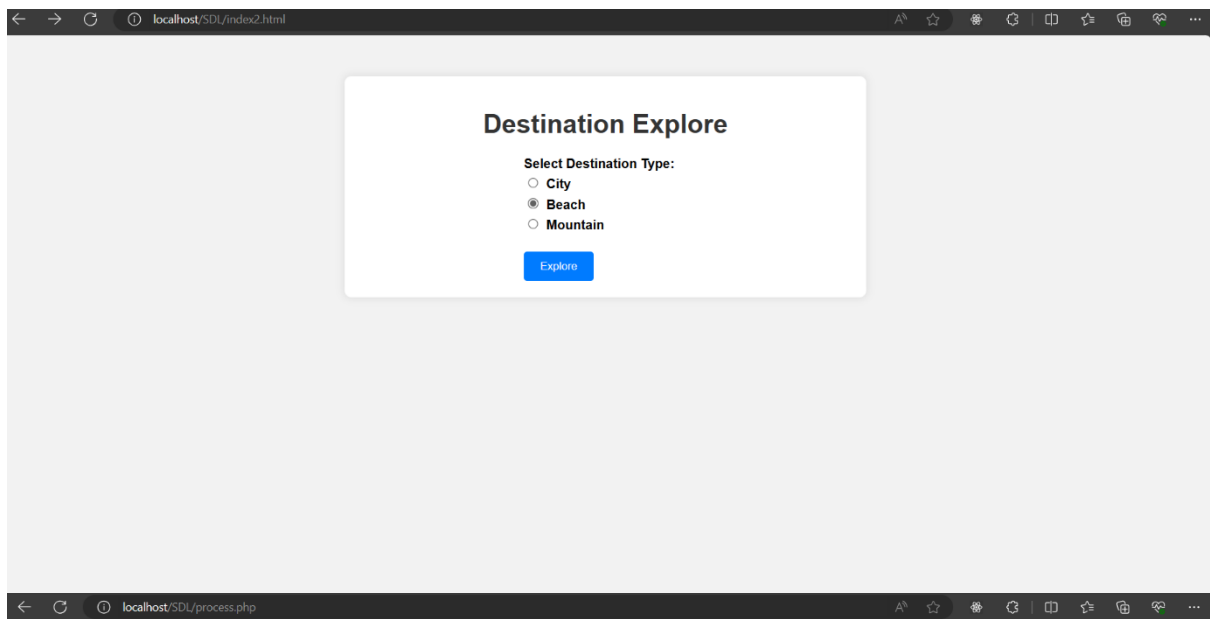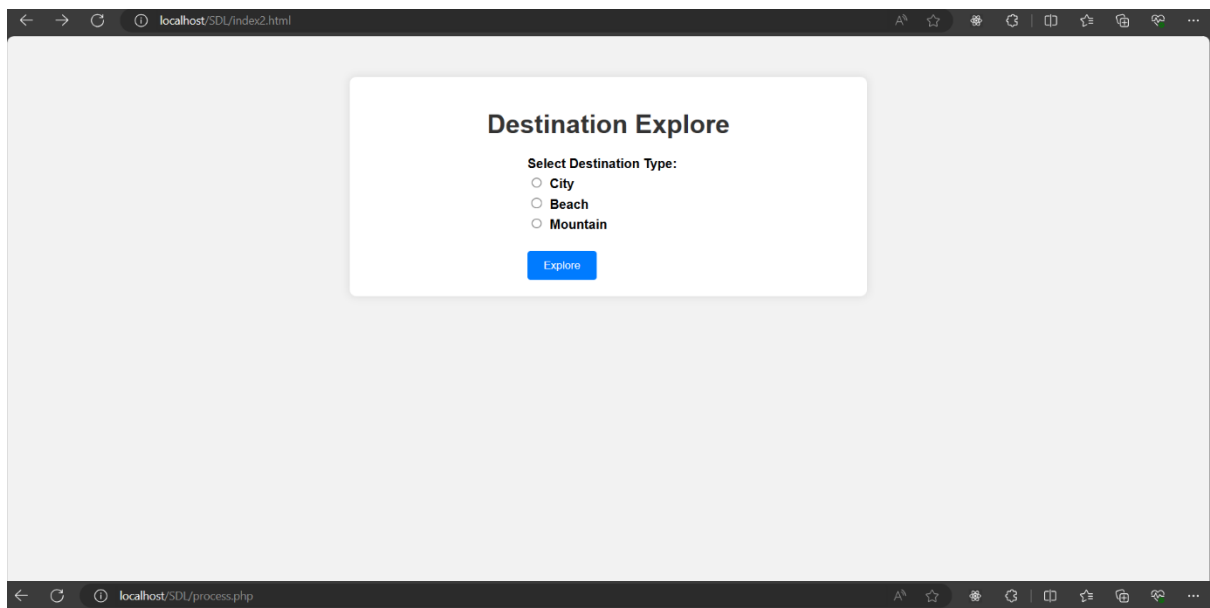
Output:

Destination Explore

Select Destination Type:
- ○ City
- ● Beach
- ○ Mountain

Explore

Goa

Location: India

Description: A tropical paradise

Climate: Tropical climate

Beach Activities: Swimming, surfing, snorkeling

Water Temperature: Around 80°F

Destination Explore

Select Destination Type:

○ **City**
○ **Beach**
○ **Mountain**

Explore

Please select a destination type