

```

<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport"
content="width=device-width,
initial-scale=1.0">
  <title>Travel Planner</title>
  <style>
    body {
      font-family: Arial, sans-serif;
      margin: 0;
      padding: 0;
      background-color: #f4f4f4;
    }
    .container {
      max-width: 1200px;
      margin: 20px auto;
      padding: 20px;
      background-color: #fff;
      border-radius: 10px;
      box-shadow: 0 0 10px rgba(0, 0, 0,
0.1);
    }
    h1 {
      text-align: center;
      color: #333;
    }
    .destination {
      display: flex;
      justify-content: space-between;
      align-items: center;
      padding: 20px;
      margin-bottom: 20px;
      border-radius: 5px;
      background-color: #e0e0e0;
    }
    .destination img {
      width: 300px;
      height: 200px;
      object-fit: cover;
      border-radius: 5px;

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    }
    .destination-details {
      flex: 1;
      margin-left: 20px;
    }
    .destination h2 {
      margin: 0 0 10px;
      color: #333;
    }
    .destination p {
      margin: 0;
      color: #666;
    }
    .book-button {
      background-color: #007bff;
      color: #fff;
      border: none;
      padding: 10px 20px;
      font-size: 16px;
      border-radius: 5px;
      cursor: pointer;
    }
    .book-button:hover {
      background-color: #0056b3;
    }
  </style>
</head>
<body>
  <div class="container">
    <h1>Popular Destinations</h1>
    <div class="Italy">
      <h2>Rome, Italy</h2>
      
      <div class="destination-details">

        <p>Italy, located in southern
Europe, is a country renowned for its rich
history, art, culture, and cuisine. With a
diverse landscape that includes stunning
coastlines, rolling hills, and majestic

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mountains, Italy offers a wide range of experiences for travelers.</p>

<button
class="book-button">Book
Now</button>

</div>

</div>
<div class="destination">

<div class="destination-details">

<h2>Egypt</h2>

<p>Pyramids</p>

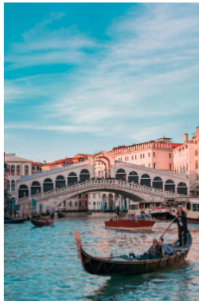
<button
class="book-button">Book Now</button>
</div>
</div>

</div>
</body>
</html>

OUTPUT:


Popular Destinations

Rome,Italy



Italy, located in southern Europe, is a country renowned for its rich history, art, culture, and cuisine. With a diverse landscape that includes stunning coastlines, rolling hills, and majestic mountains, Italy offers a wide range of experiences for travelers.

[Book Now](#)



Egypt

Pyramids

[Book Now](#)

```
<script>
function validateForm() {
    var email = document.getElementById("email").value;
    var password = document.getElementById("password").value;
    var emailPattern = /^[a-zA-Z0-9._-]+@[a-zA-Z0-9.-]+\.[a-zA-Z]{2,4}$/;

    if (!emailPattern.test(email)) {
        alert("Please enter a valid email address.");
        return false;
    }
    if(password.length<8) {
        alert("Password length must be minimum 8 characters");
        return false;
    }

    return true;
}
</script>
```


demo1.xml

```
<?xml version="1.0" encoding="UTF-8"?>

<Book ISBN="123456789">

  <Title>Sample Book</Title>

  <Author>John Doe</Author>

  <PublicationYear>2022</PublicationYear>

</Book>
```

demo1.xsd

```
<?xml version="1.0" encoding="UTF-8"?>

<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema">

  <xs:element name="Book" type="BookType"/>

  <xs:complexType name="BookType">

    <xs:sequence>

      <xs:element name="Title" type="xs:string"/>

      <xs:element name="Author" type="xs:string"/>

      <xs:element name="PublicationYear" type="xs:gYear"/>

    </xs:sequence>

    <xs:attribute name="ISBN" type="xs:string" use="required"/>

  </xs:complexType>

</xs:schema>
```

validation.py

```
from lxml import etree

# Load the XML Schema

schema_file = r"demo1.xsd"
schema = etree.XMLSchema(etree.parse(schema_file))
# Load the XML document

xml_file = r"demo1.xml"
xml_doc = etree.parse(xml_file)

# Validate the XML document against the schema
if schema.validate(xml_doc):
    print("Validation successful.")
else:
    print("Validation failed. Errors:")
    for error in schema.error_log:
        print(error)
```

```
PS D:\XAMPP\htdocs\sdl> python -u "d:\XAMPP\htdocs\sdl\demo1.py"
Validation successful.
PS D:\XAMPP\htdocs\sdl>
```

```

<?php
$result = " ";
$arr = array("guru","anish","aryan","kunal");
if($_SERVER["REQUEST_METHOD"] === "POST"){
    $s = $_POST["seachstr"];
    $result = "$s not found in array";
    foreach($arr as $x){
        if($x==$s){
            $result = "$s found in array";
            break;
        }
        else{
            array_push($arr,$s);
        }
    }
}
?>

```

```

<!DOCTYPE html>
<html lang="en">
<head>
    <title>PHP ARRAY SEARCH</title>
</head>
<body>
    <form action="demo.php" method = "post">
        <input type = "text" name = "seachstr" placeholder = "Enter text to search">
        <button type = "submit">Submit</button>
    </form>
    <?php
    echo $result."\n";
    ?>
</body>
</html>

```

OUTPUT:

Enter text to search	Submit
----------------------	--------

guru found in array

abc	Submit
-----	--------

abc not found in array


```

<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Calculate Area</title>
</head>
<body>
  <form action = "file2.php" method = "post">
    <input type = "radio" id = "rectangle" value = "rectangle" name = "shape">
    <label for="rectangle">Rectangle</label><br>
    <input type = "radio" id = "circle" value = "circle" name = "shape">
    <label for="circle">Circle</label><br>
    <input type = "radio" id = "triangle" value = "triangle" name = "shape">
    <label for="triangle">Triangle</label><br>
    <input type = "radio" id = "square" value = "square" name = "shape">
    <label for="square">Square</label><br>

    <input type = "text" name = "a" placeholder = "Enter value of 1st dimension" required ><br>
    <input type = "text" name = "b" placeholder = "Enter value of 2nd dimension"><br>

    <input type="submit" name="submit" value="Submit" />

  </form>
</body>
</html>

```

```

<?php
class Shape{
  protected $type;

  public function __construct($type){
    $this->type = $type;
  }

  public function getArea(){
    return 0;
  }
}

class Square extends Shape{
  protected $side;

  public function __construct($side){
    parent::__construct("square");
    $this->side = $side;
  }

  public function getArea(){
    return $this->side*$this->side;
  }
}

class Circle extends Shape{
  protected $radius;

  public function __construct($radius){
    parent::__construct("circle");
    $this->radius = $radius;
  }
}

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    }
    public function getArea(){
        return
3.1428*($this->radius)*($this->radius);
    }
}
class Rectangle extends Shape {
    protected $width;
    protected $height;

    public function __construct($width,
    $height) {
        parent::__construct('rectangle');
        $this->width = $width;
        $this->height = $height;
    }

    public function getArea() {
        return ($this->width * $this->height);
    }
}
class Triangle extends Shape {
    protected $base;
    protected $height;

    public function __construct($base,
    $height) {
        parent::__construct('rectangle');
        $this->base = $base;
        $this->height = $height;
    }

    public function getArea() {
        return $this->base * $this->height * 0.5;
    }
}

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if($_SERVER["REQUEST_METHOD"] ===
"POST"){
    if(isset($_POST['submit'])){
        $shapetype = $_POST['shape'];
        $area = 0;
        switch ($shapetype){
            case "circle":
                $r = $_POST["a"];
                $circle = new Circle($r);
                echo "<html><h1>
Area:". $circle->getArea(). "</h1></html>";
                break;
            case "rectangle":
                $l = $_POST["a"];
                $b = $_POST["b"];
                $rect = new Rectangle($l,$b);
                echo "<html><h1>
Area:". $rect->getArea(). "</h1></html>";
                break;
            case "square":
                $s = $_POST["a"];
                $sq = new Square($s);
                echo "<html><h1>
Area:". $sq->getArea(). "</h1></html>";
                break;
            case "triangle":
                $h = $_POST["a"];
                $b = $_POST["b"];
                $tr = new Triangle($h,$b);
                echo "<html><h1>
Area:". $tr->getArea(). "</h1></html>";
                break;
        }
    }
}
?>

```

- ☒ Rectangle
☐ Circle
☐ Triangle
☐ Square

3

2

Submit

Area:6

- ☐ Rectangle
☒ Circle
☐ Triangle
☐ Square

5

Enter value of 2nd dimension

Submit

Area:78.57

- ☐ Rectangle
☐ Circle
☒ Triangle
☐ Square

5

4

Submit

Area:10