

PART B1:

Registration.php

```
<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <title>Student Registration Number</title>

</head>

<body>

    <h1>Student Registration Number</h1>

    <form action="display.php" method="post">

        <label for="first_name">First Name:</label>

        <input type="text" name="first_name" id="first_name" required>

        <br><br>

        <label for="last_name">Last Name:</label>

        <input type="text" name="last_name" id="last_name" required>

        <br><br>

        <label for="address">Address:</label><br>

        ✂ <textarea name="address" id="address" rows="4" cols="50"></textarea><br><br>

        <label for="email">Email:</label>

        <input type="email" name="email" id="email" required>

        <br><br>

        <label for="mobile">Mobile:</label>

        <input type="tel" name="mobile" id="mobile" pattern="[0-9]{10}" required>

        <br><br>

        <label for="city">City:</label>

        <input type="text" name="city" id="city" required>
```

```
<br><br>
<label for="state">State:</label>
<input type="text" name="state" id="state" required>
<br><br>
<label for="gender">Gender:</label>
<input type="radio" name="gender" id="male" value="Male" required>Male
<input type="radio" name="gender" id="female" value="Male" required>Female
<br><br>
<label for="hobbies">Hobbies:</label><br>
<input type="checkbox" name="hobbies[]" id="hobby_reading"
value="Reading">Reading
<input type="checkbox" name="hobbies[]" id="hobby_sports" value="Sports">Sports
<input type="checkbox" name="hobbies[]" id="hobby_music" value="Music">Music
<br><br>
<label for="blood_group">Blood Group:</label><br>
<select name="blood_group" id="blood_group" required>
  <option value="">Select</option>
  <option value="A+">A+</option>
  <option value="A-">A-</option>
  <option value="B+">B+</option>
  <option value="B-">B-</option>
  <option value="AB+">AB+</option>
  <option value="AB-">AB-</option>
  <option value="O+">O+</option>
  <option value="O-">O-</option>
</select><br><br>
<input type="submit" value="Register">
</form>
</body>
</html>
```

Display.php

```
<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <title>Student Registration Details</title>

</head>

<body>

    <h1>Student Registration Details</h1>

    <?php

        if($_SERVER['REQUEST_METHOD']=='POST'){

            $first_name=$_POST['first_name'];

            $last_name=$_POST['last_name'];

            $address=$_POST['address'];

            $email=$_POST['email'];

            $mobile=$_POST['mobile'];

            $city=$_POST['city'];

            $state=$_POST['state'];

            $gender=$_POST['gender'];

            $hobbies=implode(' , ', $_POST['hobbies']);

            $blood_group=$_POST['blood_group'];

            echo "<h2>Personal Information</h2>";

            echo "<table><tr><td>First Name:</td><td>$first_name</td></tr>";

            echo "<tr><td>Last Name:</td><td>$last_name</td></tr>";

            echo "<tr><td>Address:</td><td>$address</td></tr>";

            echo "<tr><td>Email:</td><td>$email</td></tr>";

            echo "<tr><td>Mobile No:</td><td>$mobile</td></tr>";

            echo "<tr><td>City:</td><td>$city</td></tr>";
```

```
echo "<tr><td>State:</td><td>$state</td></tr>";
```

```
echo "<tr><td>Gender:</td><td>$gender</td></tr>";
```

```
echo "<tr><td>Hobbies:</td><td>$hobbies</td></tr>";
```

```
echo "<tr><td>Blood Group:</td><td>$blood_group</td></tr></table>";
```

```
}
```

```
?>
```

```
</body>
```

```
</html>
```

PART B2: MATRIX

```
<?php session_start(); ?>
```

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<title>Matrix Operations</title>
```

```
</head>
```

```
<body>
```



```
<?php
```

```
    $m=0;
```

```
    $n=0;
```

```
    if(isset($_REQUEST["M"]) and isset($_REQUEST["N"])){
```

```
        $m=$_REQUEST["M"];
```

```
        $n=$_REQUEST["N"];
```

```
        session_unset();
```

```
        $_SESSION["m"]=$m;
```

```
        $_SESSION["n"]=$n;
```

```
    }
```

```
    if(isset($_SESSION["m"]) and isset($_SESSION["n"])) {
```

```
        $m=$_SESSION["m"];
```

```
        $n=$_SESSION["n"];
```

```
    }
```

```
?>
```

```
<h1>Matrix Operations</h1>
```

```
<form method="post" action="">
```

```
    <label for="rows">Enter Number of Rows:</label>
```

```
    <input type="number" id="M" name="M" value="<?=$m?>"><br><br>
```

```
    <label for="cols">Enter Number of Columns:</label>
```

```
    <input type="number" id="N" name="N" value="<?=$n?>"><br><br>
```

```
        <input type="submit" value="Generate Matrices" name="CreateMatrixBtn">
    </form>
```

```
<?php
function CreateMatrix($strTitle, $arName){
    $m=$_SESSION["m"];
    $n=$_SESSION["n"];
    echo "<h3>$strTitle<h3>";
    echo "<table border=\"2\">";
    for($i=0;$i<$m;$i++) {
        echo "<tr>";
        for($j=0;$j<$n;$j++){
            echo "<td>";

            <input type="number" name="<?=$arName?>[]">

            <?php
            echo "</td>";

        }
        echo "</tr>";
    }
    echo "</table>";
}

function showMatButton(){
    echo "<br>";
    echo "<input type=\"submit\" name=\"addMat\" value=\"Add Matrices\">";
    echo "&nbsp; &nbsp;";
    echo "<input type=\"submit\" name=\"mulMat\" value=\"Multiply Matrices\">";
}
```

```
function GenerateMatrix($strTitle, $arName, $matName, $a){
    $m=$_SESSION["m"];
```

```

$n=$_SESSION["n"];
$k=0;
echo "<h3>${strTitle}</h3>";
echo "<table border=\"2\">";
for($i=0;$i<$m;$i++) {
    echo "<tr>";
    for($j=0;$j<$n;$j++){
        echo "<td align=\"center\">";
        $$matName[$i][$j] = $a[$k];
        $k++;
        ?>
        <input type="number" name="<?=$arName?>[]" value="<?=$$matName[$i][$j]?>" >
    <?php
    echo "</td>";
    }
    echo "</tr>";
}
echo "</table>";
$_SESSION[$matName]=$$matName;
}

```

```

if(isset($_REQUEST["CreateMatrixBtn"])){
    echo "<form method=\"post\">";
    CreateMatrix("Matrix A", "a");
    CreateMatrix("Matrix B", "b");
    showMatButton();
    echo "</form>";
}

```

```

if(isset($_REQUEST["addMat"])) {
    echo "<form method=\"post\">";

```

```

$a=$_REQUEST["a"];
$b=$_REQUEST["b"];
GenerateMatrix("Matrix A", "a","ma",$a);
GenerateMatrix("Matrix B", "b","mb",$b);
$ma=$_SESSION["ma"];
$mb=$_SESSION["mb"];
showMatButton();
echo "<h3> Result Matrix </h3>";

echo "<table border=\"2\">";
for($i=0;$i<$m;$i++) {
    echo "<tr>";
    for($j=0;$j<$n;$j++){
        echo "<td>";
        $mc[$i][$j]= $ma[$i][$j] + $mb[$i][$j];
        echo $mc[$i][$j];
        echo "</td>";
    }
    echo "</tr>";
}
echo "</table>";
echo "</form>";
}

if(isset($_REQUEST["mulMat"])) {
    if($m!=$n) {
        echo "<h3> Wrong Dimenstions, cannot multiply matrices </h3>";
    }
    else {
        echo "<form method=\"post\">";
        $a=$_REQUEST["a"];

```



```

$b=$_REQUEST["b"];
GenerateMatrix("Matrix A", "a","ma",$a);
GenerateMatrix("Matrix B", "b","mb",$b);
$ma=$_SESSION["ma"];
$mb=$_SESSION["mb"];
showMatButton();
echo "<h3> Product Matrix </h3>";
echo "<table border=\"2\">";
for($i=0;$i<$m;$i++) {
    echo" <tr>";
    for($j=0;$j<$n;$j++){
        echo "<td align=\"center\">";
        $mc[$i][$j]=0;
        for($k=0;$k<$n;$k++) {
            $mc[$i][$j]= $mc[$i][$j]+$ma[$i][$k] + $mb[$k][$j];
        }
        echo $mc[$i][$j];
        echo "</td>";
    }
    echo "</tr>";
}
echo "</table>";
echo "</form>";

}
}
?>
</body>
</html>

```

Part B3. Write a PHP program that implements a class to add and find the difference of two distance values given in feet and inches. The user inputs are collected through an HTML form.

```
<?php
class Distance {
    public $feet;
    public $inches;

    public function __construct($feet, $inches) {
        $this->feet = $feet;
        $this->inches = $inches;
    }

    // Normalize inches so that 12 inches = 1 foot
    private function normalize() {
        if ($this->inches >= 12) {
            $this->feet += intval($this->inches / 12);
            $this->inches %= 12;
        }
    }

    // Add two distances
    public function add(Distance $d) {
        $feet = $this->feet + $d->feet;
        $inches = $this->inches + $d->inches;
        $result = new Distance($feet, $inches);
        $result->normalize();
        return $result;
    }

    // Subtract two distances
    public function subtract(Distance $d) {
        $totalInches1 = $this->feet * 12 + $this->inches;
        $totalInches2 = $d->feet * 12 + $d->inches;
        $diff = abs($totalInches1 - $totalInches2);
        return new Distance(intval($diff / 12), $diff % 12);
    }

    public function __toString() {
        return "{$this->feet}' {$this->inches}\"";
    }
}

$sum = "";
$diff = "";
```

```

if ($_SERVER["REQUEST_METHOD"] == "POST") {
    $feet1 = intval($_POST['feet1']);
    $inches1 = intval($_POST['inches1']);
    $feet2 = intval($_POST['feet2']);
    $inches2 = intval($_POST['inches2']);

    $d1 = new Distance($feet1, $inches1);
    $d2 = new Distance($feet2, $inches2);

    $sum = $d1->add($d2);
    $diff = $d1->subtract($d2);
}
?>

```

Distance Calculator

Distance 1:

Feet: Inches:

Distance 2:

Feet: Inches:

Results:

Sum: 10' 7"

Difference: 0' 9"

```

<!DOCTYPE html>
<html>
<head>
    <title>Distance Calculator</title>
</head>
<body>
    <h2>Distance Calculator</h2>
    <form method="post">
        <h3>Distance 1:</h3>
        Feet: <input type="number" name="feet1" required>
        Inches: <input type="number" name="inches1" required>

        <h3>Distance 2:</h3>
        Feet: <input type="number" name="feet2" required>
        Inches: <input type="number" name="inches2" required>

        <br><br>
        <input type="submit" value="Calculate">
    </form>

    <?php if ($_SERVER["REQUEST_METHOD"] == "POST"): ?>
        <h3>Results:</h3>
        <p>Sum: <?php echo $sum; ?></p>
        <p>Difference: <?php echo $diff; ?></p>
    <?php endif; ?>
</body>
</html>

```

PART B4:LOGIN

```
<?php
$servername="localhost";
$username="root";
$password="";
$database="bcadb";

$conn=new mysqli($servername,$username,$password,$database);

if($conn->connect_error){
    die("Connection failed:" . $conn->connect_error);
}
```

```
function validate_credentials($conn,$username,$password){
    $sql="SELECT * FROM infoTable WHERE username='$username' AND
password='$password'";
    $result=$conn->query($sql);

    if($result && $result->num_rows>0){
        return true;
    }else{
        return false;
    }
}
```

```
if($_SERVER["REQUEST_METHOD"]=="POST"){
    $username=$_POST["username"];
    $password=$_POST["password"];

    if(validate_credentials($conn,$username,$password)){
```

```
        echo "Login successful .welcome,$username!";
    }else{
        echo "Invalid username or passwrod. please try agian";
    }
}
    mysqli_close($conn);
?>
```

html

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Login Form</title>
</head>
<body>
    <h2>Login Form</h2>
    <form action="" method="post">
        <label>Username:</label><br>
        <input type="text" name="username" id="username" required>
        <br><br>
        <label for="password">Password:</label><br>
        <input type="password" name="password" id="password" required>
        <br><br>
        <input type="submit" value="Login">
    </body>
</html>

<?php
$conn->close();
?>
```

PART B5: FEEDBACK

```
<?php
$host="localhost";
$username="root";
$password="";
$database="bcadb1";


$conn=new mysqli($host,$username,$password,$database);

if(!$conn){
    die("Connection failed:" . mysqli_connect_error());
}

function insert_feedback($conn,$name,$email,$subject,$message){
    $query="INSERT INTO fback(name, email, subject, message) VALUES
('$name','$email','$subject','$message')";
    $result=$conn->query($query);

    // $query = $conn->prepare("INSERT INTO fback (name, email, subject, message) VALUES
    (?, ?, ?, ?)");
    // $query->bind_param("ssss", $name, $email, $subject, $message);
    // return $query->execute();

    if( $result )
    {
        return true;
    }else{
        return false;
    }
}
```



```
if($_SERVER["REQUEST_METHOD"]=="POST"){  
    $name=$_POST["name"];  
    $email=$_POST["email"];  
    $subject=$_POST["subject"];  
    $message=$_POST["message"];  
  
    if(insert_feedback($conn,$name,$email,$subject,$message)){  
        echo "Feedback submitted successfully";  
    }else{  
        echo "Error. Feedback submission failed";  
    }  
}  
  
mysqli_close($conn);  
?>
```



```
<!DOCTYPE html>  
<html lang="en">  
<head>  
    <meta charset="UTF-8">  
    <meta name="viewport" content="width=device-width, initial-scale=1.0">  
    <title>Feedback Form</title>  
</head>  
<body>  
    <h2>Feedback Form</h2>  
    <form action="POST" action="<?php echo htmlspecialchars($_SERVER["PHP_SELF"]);?>">  
        <label>Username:</label><br>  
        <input type="text" name="name" id="name" required>  
        <br><br>  
        <label>Email:</label><br>
```

```
<input type="email" name="email" id="email" required>
<br><br>
<label >Subject:</label><br>
<input type="text" name="subject" id="subject" required>
<br><br>
<label >Message:</label><br>
<textarea name="message" id="message" rows="4" required></textarea><br><br>
<input type="submit" value="Submit">
</form>
</body>
</html>
```


PART B6: CUSTOMER INFO

```
<?php
    $servername = "localhost";
    $username = "root";
    $password = "";
    $dbname = "partb6";

    $conn = new mysqli($servername, $username, $password, $dbname);
    if ($conn->connect_error)
    {
        die("Connection failed: " . $conn->connect_error);
    }
```

```
function addCustomer($name, $item, $mobile)
{
    global $conn;
    $sql = "INSERT INTO customers (customer_name, item_purchased, mobile_number) VALUES
('$name','$item', '$mobile')";
    if ($conn->query($sql) === TRUE) {
        echo "Customer information added successfully.";
    } else {
        echo "Error: " . $sql . "<br>" . $conn->error;
    }
}
```

// Function to delete customer records

```
function deleteCustomer($id) {
    global $conn;
    $sql = "DELETE FROM customers WHERE customer_id = $id";
    if ($conn->query($sql))
    {
        if($conn->affected_rows>0)
```

```
        echo "Customer record deleted successfully!";
    else
        echo "Error deleting record: " . $conn->error;
    }
}
```

// Function to search for particular entries

```
function searchCustomer($id)
{
    global $conn;
    $sql = "SELECT * FROM customers WHERE customer_id = $id";
    $result = $conn->query($sql);
    if ($result->num_rows > 0)
    {
        while ($row = $result->fetch_assoc())
        {
            echo "Customer ID: " . $row["customer_id"] . "<br>";
            echo "Customer Name: " . $row["customer_name"] . "<br>";
            echo "Item Purchased: " . $row["item_purchased"] . "<br>";
            echo "Mobile Number: " . $row["mobile_number"] . "<br>";
        }
    }
    else
    {
        echo "No matching records found.";
    }
}
```

// Function to sort database based on customer ID

```
function sortById()
{
    global $conn;
```

```
$sql = "SELECT * FROM customers ORDER BY customer_id";
$result = $conn->query($sql);
if ($result->num_rows > 0)
{
    while ($row = $result->fetch_assoc())
    {
        echo "Customer ID: " . $row["customer_id"] . ", ";
        echo "Customer Name: " . $row["customer_name"] . ", ";
        echo "Item Purchased: " . $row["item_purchased"] . ", ";
        echo "Mobile Number: " . $row["mobile_number"] . "<br>";
    }
}
else
{
    echo "No records found.";
}
}
```

// Function to display complete set of records

```
function displayRecords()
{
    global $conn;
    $sql = "SELECT * FROM customers";
    $result = $conn->query($sql);
    if ($result->num_rows > 0)
    {
        while ($row = $result->fetch_assoc())
        {
            echo "Customer ID: " . $row["customer_id"] . ", ";
            echo "Customer Name: " . $row["customer_name"] . ", ";
            echo "Item Purchased: " . $row["item_purchased"] . ", ";
            echo "Mobile Number: " . $row["mobile_number"] . "<br>";
        }
    }
}
```

```

    }
}
else
{
    echo "No records found.";
}
}

// Main logic
if ($_SERVER["REQUEST_METHOD"] == "POST") {
    if (isset($_POST["add_customer"]))
    {
        addCustomer($_POST["customer_name"], $_POST["item_purchased"],
$_POST["mobile_number"]);
    }
    elseif (isset($_POST["delete_record"]))
    {
        deleteCustomer($_POST["customer_id"]);
    }
    elseif (isset($_POST["search_entry"]))
    {
        searchCustomer($_POST["customer_id"]);
    }
}
?>

```

html

```

<html>
<head>
    <title>Customer Information Management</title>
</head>
<body>

<!-- Add Customer Information Form-->

```

```
<button onclick="document.getElementById('add_form').style.display='block'">Add  
Information</button>
```

```
<div id="add_form" style="display:none;">
```

```
  <form method="post">
```

```
    Customer Name: <input type="text" name="customer_name" required><br>
```

```
    Item Purchased: <input type="text" name="item_purchased" required><br>
```

```
    Mobile Number: <input type="text" name="mobile_number" pattern="[0-9]{10}" title="Enter a  
10-digit mobile number" required><br>
```

```
    <input type="submit" name="add_customer" value="Add Customer">
```

```
  </form>
```

```
</div>
```

```
<!-- Delete Customer Records Form-->
```

```
<button onclick="document.getElementById('delete_form').style.display='block'">Delete  
Records</button>
```

```
<div id="delete_form" style="display:none;">
```

```
  <form method="post">
```

```
    Customer ID: <input type="text" name="customer_id" required><br>
```

```
    <input type="submit" name="delete_record" value="Delete Record">
```

```
  </form>
```

```
</div>
```

```
<!-- Search for Particular Entries Form-->
```

```
<button onclick="document.getElementById('search_form').style.display='block'">Search for  
Particular Entries</button>
```

```
<div id="search_form" style="display:none;">
```

```
  <form method="post">
```

```
    Customer ID: <input type="text" name="customer_id" required><br>
```

```
    <input type="submit" name="search_entry" value="Search">
```

```
  </form>
```

```
</div>
```

```
<!-- Sort Database Based on Customer Id-->
```

```
<button onclick="document.getElementById('sort_btn').style.display='block'">Sort Database Based  
on Customer Id</button>
```

```
<div id="sort_btn" style="display:none;">
```

```
<?php sortById(); ?>
```

```
</div>
```

```
<!-- Display Complete Set of Records-->
```

```
<button onclick="document.getElementById('display_records').style.display='block'">Display  
Complete Set of Records</button>
```

```
<div id="display_records" style="display:none;">
```

```
<?php displayRecords(); ?>
```

```
</div>
```

```
</body>
```

```
</html>
```

```
<?php
```

```
$conn->close();
```

```
?>
```


PART B7: BOOK SHOPPING

```
<?php
$servername = "localhost";
$username = "root";
$password = "";
$dbase = "partb7";

$conn = new mysqli($servername, $username, $password, $dbase);

if ($conn->connect_error) {
    die("Connection failed: " . $conn->connect_error);
}

function calculateDiscount($bookCode, $price, $quantity) {
    switch ($bookCode) {
        case 101:
            $discountRate = 0.15;
            break;
        case 102:
            $discountRate = 0.20;
            break;
        case 103:
            $discountRate = 0.25;
            break;
        default:
            $discountRate = 0.05;
    }
    $discountAmount = $price * $quantity * $discountRate;
    return $discountAmount;
}
```

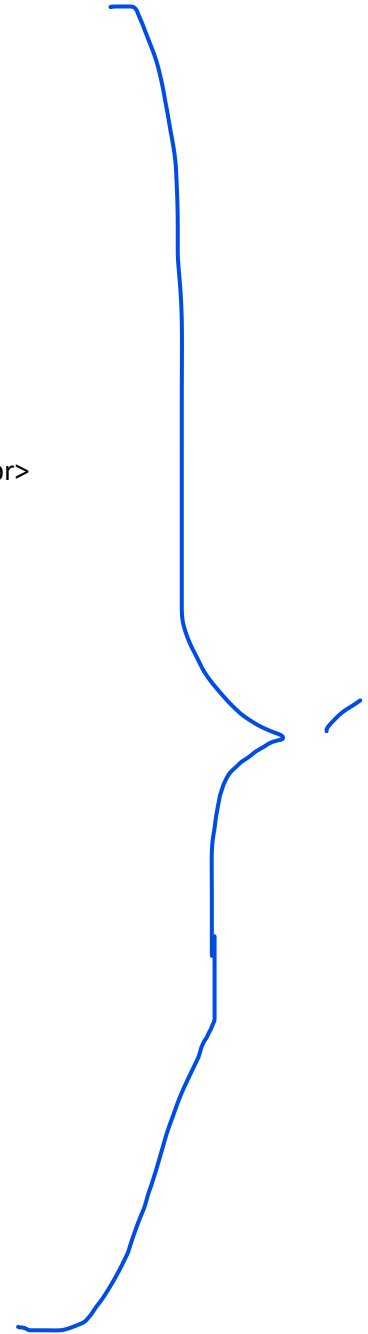


```
function calculateNetBill($price, $quantity, $discountAmount) {  
    $totalAmount = $price * $quantity;  
    $netBill = $totalAmount - $discountAmount;  
    return $netBill;  
}
```

```
if ($_SERVER["REQUEST_METHOD"] == "POST") {  
    $bookNumber = $_POST['book_number'];  
    $bookTitle = $_POST['book_title'];  
    $price = $_POST['price'];  
    $quantity = $_POST['quantity'];  
    $bookCode = $_POST['book_code'];  
  
    $discountAmount = calculateDiscount($bookCode, $price, $quantity);  
    $netBill = calculateNetBill($price, $quantity, $discountAmount);  
  
    $sql = "INSERT INTO bookshop (booknumber, booktitle, price, quantity, discountamount,  
netbill) VALUES ('$bookNumber', '$bookTitle', '$price', '$quantity', '$discountAmount',  
'$netBill')";  
  
    if ($conn->query($sql) === TRUE) {  
        echo "Bill data inserted successfully. <br>";  
        echo "Discount Amount: $" . $discountAmount . "<br>";  
        echo "Net Bill Amount: $" . $netBill . "<br>";  
    } else {  
        echo "Error: " . $sql . "<br>" . $conn->error;  
    }  
}  
$conn->close();  
?>
```



```
<html>
<head>
  <title>Book Shopping Form</title>
</head>
<body>
  <h2>Book Shopping Form</h2>
  <form method="post">
    Book Number: <input type="text" name="book_number"><br><br>
    Book Title: <input type="text" name="book_title"><br><br>
    Price: <input type="text" name="price"><br><br>
    Quantity: <input type="text" name="quantity"><br><br>
    Book Code:
    <select name="book_code">
      <option value="101">101</option>
      <option value="102">102</option>
      <option value="103">103</option>
      <option value="other">Other</option>
    </select><br><br>
    <input type="submit" value="Submit">
  </form>
</body>
</html>
```



PART B8: ROOM

```
<?php
$servername = "localhost";
$username = "root";
$password = "";
$dbname = "partb8";
$conn = new mysqli($servername, $username, $password, $dbname);

if ($conn->connect_error) {
    die("Connection failed: " . $conn->connect_error);
}

function addRecord($room_number, $room_type, $capacity, $status)
{
    global $conn;

    $sql = "INSERT INTO rooms (room_number, room_type, capacity, status) VALUES
('$room_number', '$room_type', '$capacity', '$status')";

    if ($conn->query($sql))
    {
        echo "Record added successfully.<br>";
    }
    else {
        echo "Error: " . $sql . "<br>" . $conn->error;
    }
}

function listAvailableRooms() {
    global $conn;

    $sql = "SELECT * FROM rooms WHERE status = 'available'";
    $result = $conn->query($sql);
```

```
if ($result->num_rows > 0)
{
    echo "<h3>Available Rooms:</h3>";
    while ($row = $result->fetch_assoc())
    {
        echo "Room Number: " . $row["room_number"] . ", ";
        echo "Room Type: " . $row["room_type"] . ", ";
        echo "Capacity: " . $row["capacity"] . "<br>";
    }
}
else {
    echo "No available rooms.";
}
}
```

```
function listBookedRooms() {
    global $conn;
    $sql = "SELECT * FROM rooms WHERE status = 'booked'";
    $result = $conn->query($sql);
    if ($result->num_rows > 0)
    {
        echo "<h3>Booked Rooms:</h3>";
        while ($row = $result->fetch_assoc())
        {
            echo "Room Number: " . $row["room_number"] . ", ";
            echo "Room Type: " . $row["room_type"] . ", ";
            echo "Capacity: " . $row["capacity"] .
            "<br>";
        }
    }
    else {
        echo "No booked rooms.";
    }
}
```

```
}  
}
```

```
function checkIn($room_number)  
{  
    global $conn;  
    $sql = "UPDATE rooms SET status = 'booked' WHERE room_number = $room_number";  
    if ($conn->query($sql))  
    {  
        if($conn->affected_rows>0)  
            echo "Check-in successful for Room Number: $room_number.<br>";  
        else  
            echo "Error: " . $sql . "<br>" . $conn->error;  
    }  
}
```

```
function checkOut($room_number) {  
    global $conn;  
    $sql = "UPDATE rooms SET status = 'available' WHERE room_number = $room_number";  
    if ($conn->query($sql))  
    {  
        if($conn->affected_rows>0)  
            echo "Check-out successful for Room Number: $room_number.<br>";  
        else  
            echo "Error: " . $sql . "<br>" . $conn->error;  
    }  
}
```

```
if ($_SERVER["REQUEST_METHOD"] == "POST") {  
    if (isset($_POST["add_record"])) {  
        addRecord($_POST["room_number"],
```

```
$_POST["room_type"], $_POST["capacity"],
$_POST["status"]);
}

elseif (isset($_POST["check_in"])) {
    checkIn($_POST["room_number"]);
}

elseif (isset($_POST["check_out"])) {
    checkOut($_POST["room_number"]);
}
}
mysqli_close($conn);
?>
```

```
<html>
<head>
    <title>Hotel Reservation</title>
</head>
<body>
    <h2>Add Record</h2>
    <form method="post">
        Room Number: <input type="number" name="room_number" required><br>
        <br>
        Room Type:<select name="room_type" required>
            <option value="single semi">single semi</option>
            <option value="single deluxe">single deluxe</option>
            <option value="double semi">double semi</option>
            <option value="double deluxe">double deluxe</option>
            <option value="dormitory">dormitory</option>
        </select>
        <br><br>
```

```
Capacity: <input type="number" name="capacity" required><br><br>
Status (available/booked): <input type="text" name="status" required><br><br>
<input type="submit" name="add_record" value="Add Record">
</form>
```

```
<h2>Check-in</h2>
```

```
<form method="post">
```

```
Room Number: <input type="number" name="room_number" required><br>
```

```
<input type="submit" name="check_in" value="Check-in">
```

```
</form>
```

```
<h2>Check-out</h2>
```

```
<form method="post">
```

```
Room Number: <input type="number" name="room_number" required><br>
```

```
<input type="submit" name="check_out" value="Check-out">
```

```
</form>
```

```
<?php listAvailableRooms(); ?>
```

```
<?php listBookedRooms(); ?>
```

```
</body>
```

```
</html>
```

```
<?php
```

```
$conn->close();
```

```
?>
```