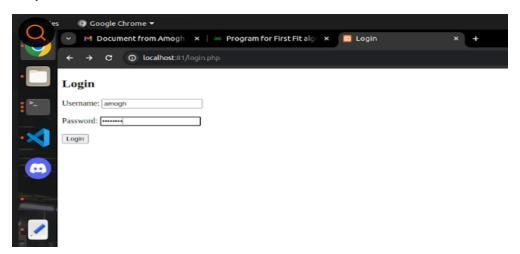
```
Login.php
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Login</title>
</head>
<body>
<h2>Login</h2>
<form action="login_process.php" method="post">
<label for="username">Username:</label>
<input type="text" id="username" name="username" required><br><br>
<label for="password">Password:</label>
<input type="password" id="password" name="password" required><br><br>
<input type="submit" value="Login">
</form>
</body>
</html>
Logout.php
<?php
session_start();
// Unset all session variables
$_SESSION = array();
// Destroy the session
session_destroy();
```

```
// Delete the session cookie by setting its expiration time to a past value
setcookie(session_name(), ", time() - 3600, '/');
// Redirect to the login page after logout
header("Location: login.php");
exit();
?>
Home.php
<?php
session_start();
// Check if the user is logged in, if not redirect to login page
if (!isset($_SESSION["username"])) {
// Check if the remember me cookie is set
if(isset($_COOKIE['username'])) {
$_SESSION["username"] = $_COOKIE['username'];
} else {
header("Location: login.php");
exit();
}
}
// Display welcome message
echo "Welcome, " . $_SESSION["username"] . "!";
// Provide a logout option
echo "<br><a href='logout.php'>Logout</a>";
?>
Login_process.php
```

```
<?php
session_start();
// Dummy username and password (you should retrieve these from your database)
$valid_username = "amogh";
$valid_password = "password";
// Check if the form is submitted
if ($_SERVER["REQUEST_METHOD"] == "POST") {
$username = $_POST["username"];
$password = $_POST["password"];
// Check if username and password are correct
if ($username === $valid_username && $password === $valid_password) {
// Set session variables
$_SESSION["username"] = $username;
// Check if remember me is checked
if(isset($_POST['remember'])) {
// Set the cookie to remember the username for 1 week (adjust as needed)
setcookie('username', $username, time() + (7 * 24 * 60 * 60), '/');
}
// Redirect to the home page or any other page after successful login
header("Location: home.php");
exit();
} else {
echo "Invalid username or password.";
}
}
?>
```

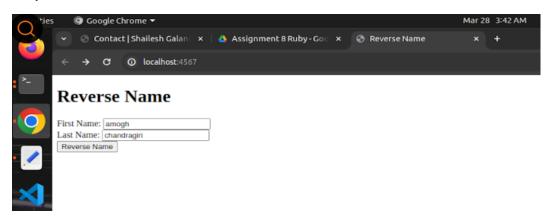
## **Output:-**

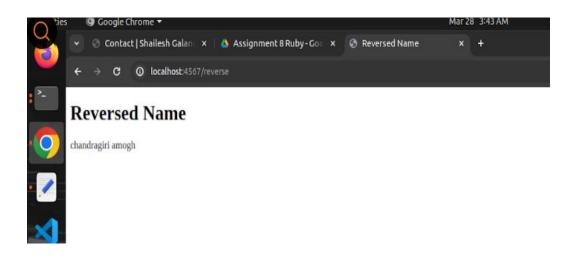




```
app.rb:-
require 'sinatra'
# Method to reverse the name
def reverse_name(first_name, last_name)
"#{last_name} #{first_name}"
end
get '/' do
erb:index
end
post '/reverse' do
first_name = params[:first_name]
last_name = params[:last_name]
@reversed_name = reverse_name(first_name, last_name)
erb :reverse
end
index.erb:-
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Reverse Name</title>
</head>
<body>
<h1>Reverse Name</h1>
<form action="/reverse" method="POST">
<label for="first_name">First Name:</label>
<input type="text" id="first_name" name="first_name" required><br>
<label for="last_name">Last Name:</label>
<input type="text" id="last_name" name="last_name" required><br>
<button type="submit">Reverse Name</button>
</form>
</body>
</html>
reverse.erb:-
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Reversed Name</title>
</head>
<body>
<h1>Reversed Name</h1>
<%= @reversed_name %>
</body>
</html>
```

## **Output:-**





```
<?php
define('pi', 3.14);
interface shape
    function calc area($1, $w);
    function calc peri($1, $w);
}
class Circle implements shape
    function calc area($1, $w)
        return pi * $1 * $1;
    function calc peri($1, $w)
       return 2 * pi * $1;
}
class Rectangle implements shape
    function calc_area($1, $w)
        return $1 * $w;
    function calc peri($1, $w)
       return 2 * ($1 + $w);
}
class Square implements shape
    function calc area($1, $w)
        return $1 * $1;
    function calc peri($1, $w)
       return 4 * $1;
}
$op = isset($_GET['op']) ? $_GET['op'] : null;
echo '<html>';
echo '<head>';
echo '<style>';
echo 'body {';
echo '
        font-family: Arial, sans-serif;';
echo '
         background-color: #f4f4f4;';
echo ' margin: 0;';
echo ' padding: 0;';
```

```
display: flex;';
justify-content: center;';
align-items: center;';
height: 100;;
echo '
echo '
echo '
echo '
         height: 100vh;';
echo '}';
echo 'div {';
echo '
         max-width: 400px;';
echo '
         width: 100%;';
        background-color: #fff;';
padding: 20px;';
border-radius: 8px:':
echo '
echo '
echo ' border-radius: 8px;';
echo ' box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);';
echo '}';
echo '</style>';
echo '</head>';
echo '<body>';
echo '<div>';
switch ($op) {
    case 1:
         1 = isset(SET['l']) ? (int)SET['l'] : 0;
         w = isset(\$ GET['w']) ? (int)\$ GET['w'] : 0;
         $ob = new Rectangle();
         a = \phi - 2a (1, w);
         v = \phi_0 > calc_peri(1, w);
         echo "Area of Rectangle is: $aPerimeter of Rectangle
is: $v";
        break;
    case 2:
         1 = isset(\$ GET['l']) ? (int)\$ GET['l'] : 0;
         w = isset(\$ GET['w']) ? (int)\$ GET['w'] : 0;
         $ob = new Square();
         a = \frac{1}{2} - \frac{1}{2}  area($1, $w);
         v = \phi_0 > calc_peri(1, w);
        echo "Area of Square is: $aPerimeter of Square is:
$v";
        break;
         r = isset(\ GET['r']) ? (int)\ GET['r'] : 0;
         $ob = new Circle();
         a = \phi - calc area(r, 0);
         v = \phi->calc_peri(r, 0);
        echo "Area of Circle is: $aPerimeter of Circle is:
$v";
        break;
    default:
        echo "Invalid operation.";
}
echo '</div>';
echo '</body>';
echo '</html>';
?>
```

## Output:-

For Rectangle and Square
Enter Length
4
Enter Width
4
Select Shape:
Rectangle
Square
For Circle
Enter Radius
Circle
SUBMIT

Area of Square is: 16

Perimeter of Square is: 16

Area of Circle is: 50.24

Perimeter of Circle is: 25.12

Area of Rectangle is: 16

Perimeter of Rectangle is: 16