

**1a.**

**HTML:**

```
<html>
  <form action="1a.php" method="post">
    <center>
      <input type="submit" value="Show Server Info" />
    </center>
  </form>
</html>
```

**PHP:**

```
<?php
if ($_SERVER['REQUEST_METHOD'] == 'POST') {
  echo "<html><center><table border='1'>";
  echo "<tr><th>ENV_VARIABLES</th><th>Value</th></tr>";
  foreach ($_SERVER as $key => $value) {
    echo "<tr><td>$key</td><td>$value</td></tr>";
  }
  echo "</table></center></html>";
}
?>
```

**1b.**

**HTML:**

```
<html>
  <form action="1b.php" method="post">
    Command: <input type="text" name="com" />
    <input type="submit" value="Submit" />
  </form>
</html>
```

**PHP:**

```
<?php
if ($_SERVER['REQUEST_METHOD'] == 'POST') {
  $command = $_POST['com'];
  $output = shell_exec($command);
  echo "<html><center><pre>$output</pre></center></html>";
}
?>
```

## 2a.

### HTML:

```
<html>
  <form action="2a.php" method="post">
    <center>
      <h2>Enter your name:</h2>
      <input type="text" name="name" />
      <input type="submit" value="Submit" />
    </center>
  </form>
</html>
```

### PHP:

```
<?php
if ($_SERVER['REQUEST_METHOD'] == 'POST') {
    $name = $_POST['name'];
    $greet = ["Hello", "Hai", "Nice meeting you", "Have a nice day"];
    $index = rand(0, count($greet) - 1);
    echo "<html><center><h2>$name, $greet[$index]</h2></center></html>";
}
?>
```

## 2b.

### HTML:

```
<html>
  <form action="2b.php" method="post">
    <center>
      <input type="submit" value="Show Number of Views" />
    </center>
  </form>
</html>
```

### PHP:

```
<?php
$file = 'count.txt';
if (!file_exists($file)) {
    file_put_contents($file, '0');
}
```

```

$count = (int)file_get_contents($file);
$count++;
file_put_contents($file, $count);
echo "<html><center>This page has been viewed $count
times</center></html>";
?>

```

### **3.HTML:**

```

<html>
  <form action="4.php" method="post">
    <center>
      <h2>Login as Webmaster</h2>
      Username: <input type="text" name="username" />
      Password: <input type="password" name="password" />
      <input type="submit" value="Login" />
    </center>
  </form>
</html>

```

### **PHP:**

```

<?php
session_start();

if ($_SERVER['REQUEST_METHOD'] == 'POST') {
    $username = $_POST['username'] ?? "";
    $password = $_POST['password'] ?? "";
    if ($username === 'webmaster' && $password === 'password123') {
        $_SESSION['loggedin'] = true;
        $_SESSION['username'] = $username;
    } else {
        exit('<html><center><h2>Invalid username or password. Please try
again.</h2></center></html>');
    }
}

if (isset($_GET['logout'])) {
    session_destroy();
}

```

```

        exit('<html><center><h2>You have been logged out successfully.</h2><a
href="4.php.html">Login again</a></center></html>');
    }

    if ($_SESSION['loggedin'] ?? false) {
        $hour = date("H");
        $greeting = ($hour < 5) ? 'Good Night' : (($hour < 12) ? 'Good Morning' :
(($hour < 17) ? 'Good Afternoon' : 'Good Evening'));
        $time = date("H:i:s");
        exit("<html><center><h2>$greeting, {$_SESSION['username']}!</h2><p>The
current server time is: $time</p><a
href='4.php?logout=true'>Logout</a></center></html>");
    }
?>

```

#### **4.HTML:**

```

<html>
    <form action="3.php" method="post">
        <center>
            <input type="submit" value="Click to Display Time" />
        </center>
    </form>
</html>

```

#### **PHP:**

```

<?php
header("Refresh:1");
echo "<html><center>";
$currentTime = time();
$s = date("s", $currentTime);
$m = date("i", $currentTime);
$h = date("H", $currentTime);
echo "The current server time is $h:$m:$s<br>";
echo "In words, the time is - $h hours, $m minutes, and $s seconds";
echo "</center></html>";
?>

```