

## Quiz - 02

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### Answer to the Question : 01

The differences between session and cookie are:

Session	Cookie
1. Server-side storage for user specific data during a user's interaction with a website.	1. Small pieces of data stored on the user's device.
2. Managed by the server and identified by a unique session ID.	2. Can be created, read, modified and deleted by both server and client-side script.
3. Stores information securely on the server, not directly accessible by the client.	3. Stores information such as user preferences, login sessions etc.
4. Typically ends when the user closes the browser or after a period of inactivity.	4. Can have expiration times, allowing persistence for a specified duration.

### Real life Example:

Session: Shopping website uses sessions to store user's login status, shopping cart items etc, on the server during the user's visit.

Cookie: The same shopping website uses cookies to remember the user's login credentials or a token for maintaining their logged-in status across multiple visits.

HTML Page:      Answer to the Question No: 02

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<title>Form Validation with PHP</title>
```

```
</head>
```

```
<body>
```

```
<h2>Form Validation with PHP</h2>
```

```
<form action="process_form.php" method="post">
```

```
<label for="name">Name:</label>
```

```
<input type="text" id="name" name="name" required></br></br>
```

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

```
<input type="email" id="email" name="email" required></br></br>
```

```
<label for="phone">Phone:</label>
```

```
<input type="text" id="phone" name="phone" required></br></br>
```

```
<label for="password">Password:</label>
```

```
<input type="password" id="password" name="password" required>
```

```
</br></br>
```

```
<label for="confirm_password">Confirm Password:</label>
```

```
<input type="password" id="cpassword" name="cpassword" required>
```

```
</br></br>
```

```
<input type="submit" value="Submit">
```

```
</form>
```

```
</body>
```

```
</html>
```

process\_form.php:

<?php

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

```
    $name = $_POST['name'];
```

```
    $email = $_POST['email'];
```

```
    $phone = $_POST['phone'];
```

```
    $password = $_POST['password'];
```

```
    $cpassword = $_POST['cpassword'];
```

```
    $errors = array();
```

```
    if(empty($name)) {
```

```
        $errors[] = "Name field is required.";
```

```
    }
```

```
    if(empty($email)) {
```

```
        $errors[] = "Email field is required.";
```

```
    } elseif(!filter_var($email, FILTER_VALIDATE_EMAIL)) {
```

```
        $errors[] = "Invalid email format.";
```

```
    }
```

```
    if(empty($phone)) {
```

```
        $errors[] = "Phone field is required.";
```

```
    }
```

```
    if(empty($password)) {
```

```
        $errors[] = "Password field is required.";
```

```
    }
```

```
if (empty ($cpassword)) {  
    $errors[] = "Confirm Password field is required.";  
} elseif ($password != $cpassword) {  
    $errors[] = "Passwords do not match";  
}  
  
if (count($errors) > 0) {  
    foreach ($errors as $error) {  
        echo $error, "<br>";  
    }  
} else {  
    echo "Form submitted successfully!";  
}  
}
```

?>

Answer to the Question No: 03

In PHP, an array is a versatile and fundamental data structure that allows <sup>us</sup> you to store multiple values in a single variable. Arrays in PHP can hold various data types (strings, numbers, other arrays, objects, etc) and are commonly used to manage collections of data.

Real Life Example of Arrays in PHP:

```
<?php
$studentResults = array(
    "Shanto" => array("Math" => 85, "English" => 78),
    "Emon" => array("Math" => 75, "English" => 85)
);
echo "Student's Results";
foreach($studentResults as $student => $subjects) {
    echo "$student : ";
    foreach($subjects as $subject => $marks) {
        echo "$subject : <br>";
    }
    echo "<br>";
}
?>
```



In this code,

▣ '\$student Results' is an associative array where the keys are the student's names, and each student has an array representing their subject marks (Math, English).

▣ The 'foreach' loop iterates through each student and displays their respective subject marks.