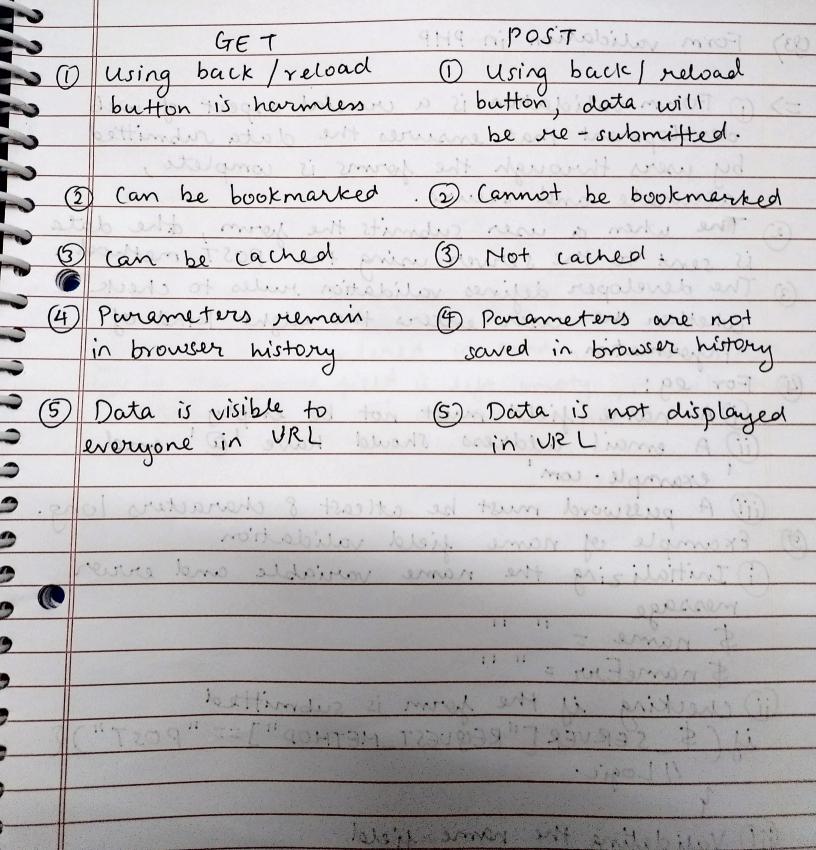
	would you use the GET or POST method in PHP? Justify your answer and distinguish between these methods.
92)	(23) Form validation in PHP + 0
=>	1) For sending consitive into wation like as coward
	1) For sending sensitive information like password to the backend you should always use the POST method nather than GET.
	the POST method was always with
(1)	POST data is not isite from GET.
	GET parameters which are
0	
(4)	is not exposed anywhere.
U	while GTT handle large amount of data
(6)	POST can handle large amount of data while GET has limitations.
8	
	<9 php
	ij (\$_SERVER["REQUEST METHOD"]="POST")
	ij (\$_SGRVER["REGUEST_METHOD"]="POST")
	\$ username = \$ post [' 17
	\$ password = & prit [! username);
	\$ username = \$_POST ['username']; \$ password = \$_POST ['password'];
	11 Remaining Logic
1	2
and the same of th	
S. Carlotte and C. Carlotte an	
-	
100	- form method = "post" action = "logic ! "
	1 input 1 -11, 11
	<pre>cinput type = "rest name = "username" ></pre>
	<pre> // input type = "password" nome = "password" > // input type = "submit" value = "losis" </pre>
	4 form > "The = submit value = "Login" >

If you wanted to send sensitive information like a password to the backend,



C93) Form validation in PHP => (1) Form validation is a vucial aspect of web development that ensures the data submitted by users through the forms is complete, 5 accurate and secure. when a user submits the form, the date -6 Is sent to the server using the POST method. -(3) The developer defines validation rules to check whether the user enters the night kind of information. 6 (4) For eq: (i) A email address should have ! @ ' emal. -1 example · com (iii) A pussword must be atleast 8 characters long. Example of name field validation (i) Initializing the name variable and error 5 name = \$ name Err = " " ii) checking if the form is submitted

if (\$ SERVER["REGUEST_METHOD"]== "POST"){ 2 (ii) Validating the name jield

if (empty (\$POST ["name"])) {

\$ name Eur = "Name is required";

4

(i) Displaying the name field and ever message
in HTML < form method = "post:" action = "<php echo \$ SERVER["PHP_SELF"]; ?> Name: Linput type = "text" name = "name";

Liphp echo \$ mameErr; ?> The form displays an input field for the user to display their name.

(i) The value entered is sent via POST method

(ii) If the name field is left empty, it will show

evour else it will display the name. an enisting one.

(5) parameters:

method: GET, POST, PUT, DELETE

wit: The URL to send the nequest to asyne: poolean indicating whether the - over sure of blood tourser (i) provides the mount to the sometime Porgameters:

dots: The data to be sent andor meand I mekastition organ (1); pake and the endow 1777 may alphanian and along the Three articles and the topics with the party of

Q. Explain the different data types in PHP.

=>

1. Scalar Types

Scalar types are single-value types, meaning they hold a single value. PHP supports the following scalar data types:

a) Integer

- Represents whole numbers, both positive and negative, without any decimal point.
- Example:

```
$age = 25; // Integer
```

b) Float (or Double)

- Represents numbers that have a decimal point.
- Example:

```
$price = 10.50; // Float
```

c) String

- Represents a sequence of characters enclosed in either single or double quotes.
- Example:

```
$name = "John"; // String
$greeting = 'Hello, world!'; // String
```

d) Boolean

- Represents two possible values: TRUE or FALSE.
- Often used in conditional statements.
- Example:

```
$isLoggedIn = true; // Boolean
```

2. Compound Types

Compound types hold multiple values. PHP has the following compound data types:

a) Array

- A collection of values that can be indexed either numerically or associatively (using named keys).
- Example:\$colors = array("Red", "Green", "Blue");

b) Object

- A collection of data (properties) and functions (methods) that operate on the data.
- Objects are instances of classes.
- Example:

```
class Car {
  public $brand;
  public $model;
  public $year;

function __construct($brand, $model, $year) {
    $this->brand = $brand;
    $this->model = $model;
    $this->year = $year;
  }
}

$myCar = new Car("Toyota", "Camry", 2020); // Object
```

3. Special Types

These data types do not store any values but are used for specific purposes in PHP.

a) NULL

- Represents a variable with no value. A variable is set to NULL either explicitly or when it is not initialized.
- Example

```
$var = NULL; // NULL
```

Q. Discuss various control structures in PHP with suitable examples. => 1. Conditional Statements a) if Statement if (condition) { // code to be executed if condition is TRUE } b) if...else Statement if (condition) { // code if TRUE } else { // code if FALSE } c) if...elseif...else Statement if (condition1) { // code if condition1 is TRUE } elseif (condition2) { // code if condition2 is TRUE } else { // code if no condition is TRUE d) switch Statement switch (variable) { case value1: // code to be executed if variable equals value1 break; case value2: // code to be executed if variable equals value2 break; default: // code to be executed if no cases match }

2. Looping Structures

```
a) while Loop
```

```
while (condition) {
  // code to be executed
}
```

b) do...while Loop

```
do {
  // code to be executed
} while (condition);
```

c) for Loop

```
for (initialization; condition; increment/decrement) {
  // code to be executed
}
```

d) foreach Loop

```
foreach ($array as $value) {
  // code to be executed
}
```

3. Jump Statements

a) break Statement

```
break; // Exit from loop or switch
```

b) continue Statement

continue; // Skip the current iteration and continue with the next

c) return Statement

return; // Exit from function and optionally return a value

Q. Explain the structure of an XML document with an example.

=>

- a. An XML (eXtensible Markup Language) document is structured to represent data in a hierarchical manner, allowing the information to be stored in a readable, text-based format.
- b. The structure is designed to be both human-readable and machine-readable.

c. Components of an XML Document:

1. XML Declaration

2. The XML declaration is optional but typically placed at the top of an XML document. It defines the XML version and the character encoding used in the document.

a. Syntax:

```
<?xmlversion="1.0" encoding="UTF-8"?>
```

b. Explanation:

- i. version: Defines the version of XML being used, usually "1.0".
- ii. encoding: Specifies the character encoding used in the document (e.g., UTF-8).

3. Root Element

Every XML document has a single root element that contains all other elements. It is the outermost tag that holds all content within the document.

a. Syntax:

```
<root>
<!-- Content goes here -->
</root>
```

4. Elements

Elements are the primary building blocks of XML documents. They consist of a start tag, content, and an end tag.

a. Syntax:

<element>content</element>

b. Explanation:

- i. start tag: <element> marks the beginning of the element.
- ii. end tag: </element> marks the end of the element.
- iii. content: The actual data or nested elements inside the start and end tags.

5. Attributes

Elements can contain attributes that provide additional information. Attributes are specified within the start tag.

a. Syntax:

<element attribute="value">content</element>

b. Explanation:

- i. attribute: Defines the name of the attribute.
- ii. value: The value assigned to the attribute.

6. Nested Elements

XML allows elements to be nested inside one another, forming a hierarchy of data.

a. Syntax:

```
<parent>
  <child>content</child>
</parent>
```

7. Comments

XML allows comments to be added for clarity or notes. Comments are enclosed within <!-- and -- >.

a. Syntax:

<!-- This is a comment -->