Date: 06/05/2023

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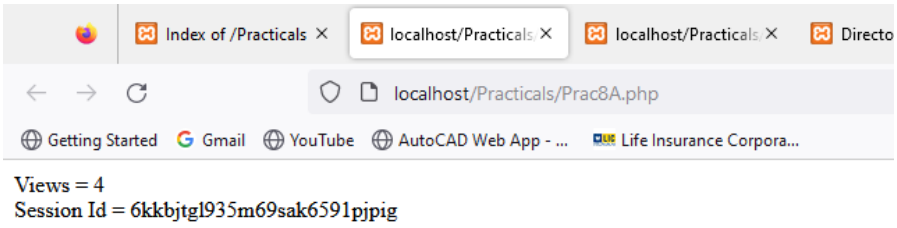
Course Code and Name: 2CSDE69 LAMP Technology
Practical No. 8(A)
Aim: Write a PHP program to store page views count in SESSION, to increment the count on each refresh, and to show the count on web page

Methodology followed:

```
<html>
<body>

<?php

if(!isset($_SESSION))
{
    session_start();
    if(!empty($_SESSION['views']))
    {
        $_SESSION['views']++;
    }
    else
    {
        $_SESSION['views']=1;
    }

    echo "Views = ".$_SESSION['views']."<br>";
    echo "Session Id = ".session_id();

}

?>

</body>
</html>
```

Output:



Practical No. 8(B)

Aim: Write a menu driven program to perform the following stack and queue related operations:

i. Insert an element in stack
ii. Delete an element from stack
iii. Display the contents of stack
iv. Insert an element in queue
v. Delete an element from queue
vi. Display the contents of queue

Also use concept of COOKIE.

Methodology followed:

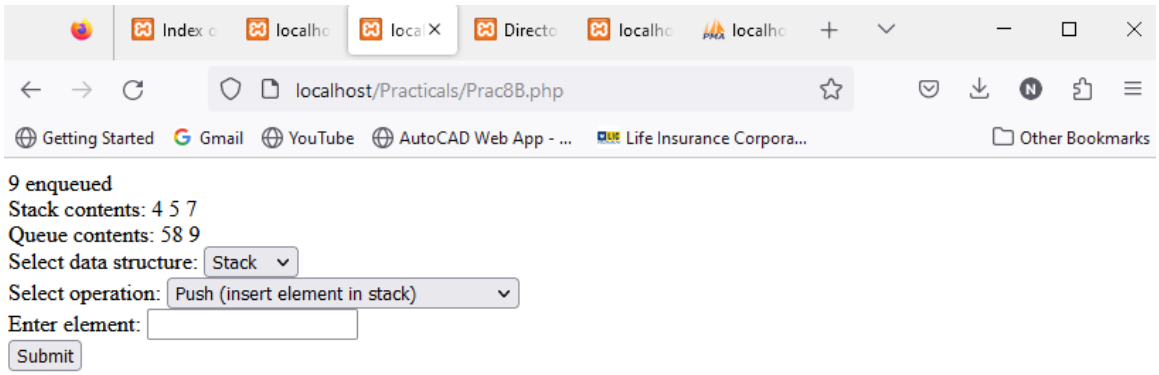
```php
<?php
// Check if stack and queue arrays exist in cookies
if (!isset($_COOKIE['stack'])) {
    $stack = array();
} else {
    $stack = unserialize($_COOKIE['stack']);
}
if (!isset($_COOKIE['queue'])) {
    $queue = array();
} else {
    $queue = unserialize($_COOKIE['queue']);
}

// Check if user submitted a form
if ($_SERVER['REQUEST_METHOD'] == 'POST') {
    // Get user input
    $data_structure = $_POST['data_structure'];
    $operation = $_POST['operation'];
    $element = $_POST['element'];

    // Perform operation based on user input
    switch ($data_structure) {
        case 'stack':
            switch ($operation) {
                case 'push':
                    // Insert element in stack
                    array_push($stack, $element);
                    echo "$element pushed to stack<br>";
                    break;
                case 'pop':
                    // Delete element from stack
                    $element = array_pop($stack);
                    echo "$element popped from stack<br>";
                    break;
            }

            // Update stack in cookies
```

```
            setcookie('stack', serialize($stack));
            break;

        case 'queue':
            switch ($operation) {
                case 'enqueue':
                    // Insert element in queue
                    array_push($queue, $element);
                    echo "$element enqueued<br>";
                    break;
                case 'dequeue':
                    // Delete element from queue
                    $element = array_shift($queue);
                    echo "$element dequeued<br>";
                    break;
            }

            // Update queue in cookies
            setcookie('queue', serialize($queue));
            break;
    }
}

// Display stack contents
echo "Stack contents: ";
if (empty($stack)) {
    echo "Empty";
} else {
    foreach ($stack as $item) {
        echo "$item ";
    }
}
echo "<br>";

// Display queue contents
echo "Queue contents: ";
if (empty($queue)) {
    echo "Empty";
} else {
    foreach ($queue as $item) {
        echo "$item ";
    }
}
echo "<br>";
?>

<!-- HTML form for user input -->
<form method="POST">
    <label for="data_structure">Select data structure:</label>
    <select name="data_structure">
```

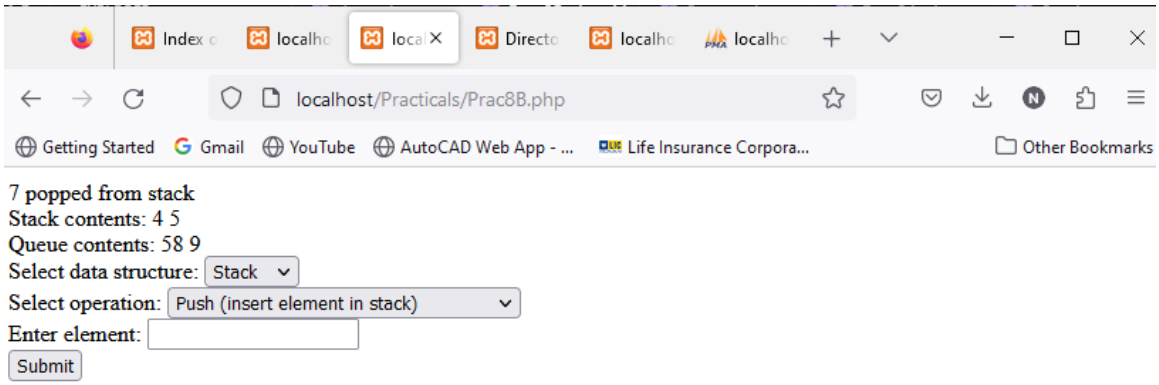
```
        <option value="stack">Stack</option>
        <option value="queue">Queue</option>
    </select><br>
    <label for="operation">Select operation:</label>
    <select name="operation">
        <option value="push">Push (insert element in stack)</option>
        <option value="pop">Pop (delete element from stack)</option>
        <option value="enqueue">Enqueue (insert element in queue)</option>
        <option value="dequeue">Dequeue (delete element from queue)</option>
    </select><br>
    <label for="element">Enter element:</label>
    <input type="text" name="element"><br>
    <input type="submit" value="Submit">
</form>
```

Output:

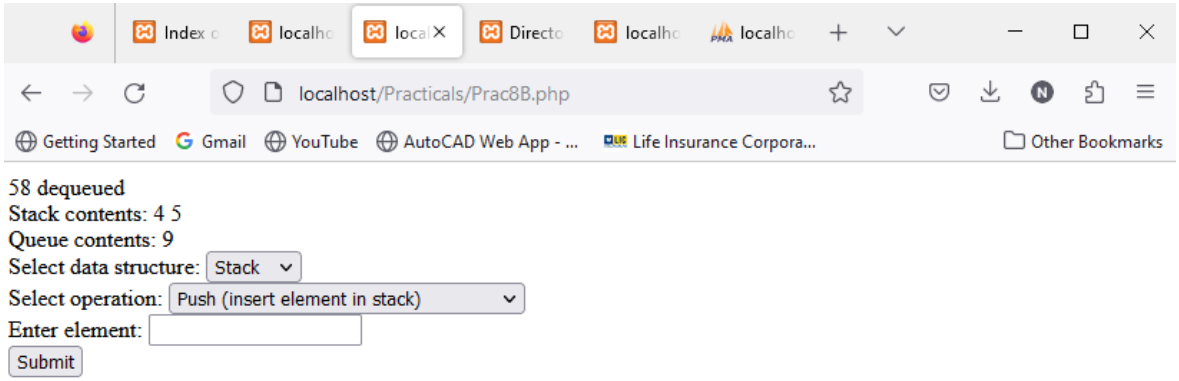
Push in Stack and Enqueue in Queue:



Pop in Stack:



Dequeue in Queue:



Conclusion: We learned about cookies and how they work. Also learned about implementing stack queue functions with cookies.