Practical File of

BCA 172

(Web Based Programming)

BACHELOR OF COMPUTER APPLICATIONS

Academic Session: - 2022-23 Batch-2021-24

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4.	Write a program to create a menu driven program and show the usage of switch-case.	
5.	Write a program to show the usage of for/while/do while loop?	
6.	Write a program to perform all four types of sorting?	
7.	Write a program to implement Array pad(),array slice(),arraysplice(), list()functions?	
8.	Write a program to show the application of user defined functions?	
9.	Write a program that Passes control to another page (include, require, exit and die functions)?	
10.	Write a program to validate the form data using Filter_var() function.	
11.	Write a program to show the usage of Cookie.	
12.	Write a program to show the usage of Session?	
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14.	Do Form handling In PHP Design a personal Information form, then Submit & Retrieve the Form Data Using $_GET(), $_POST() and $_REQUEST() Variables?	
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PROGRAMMES

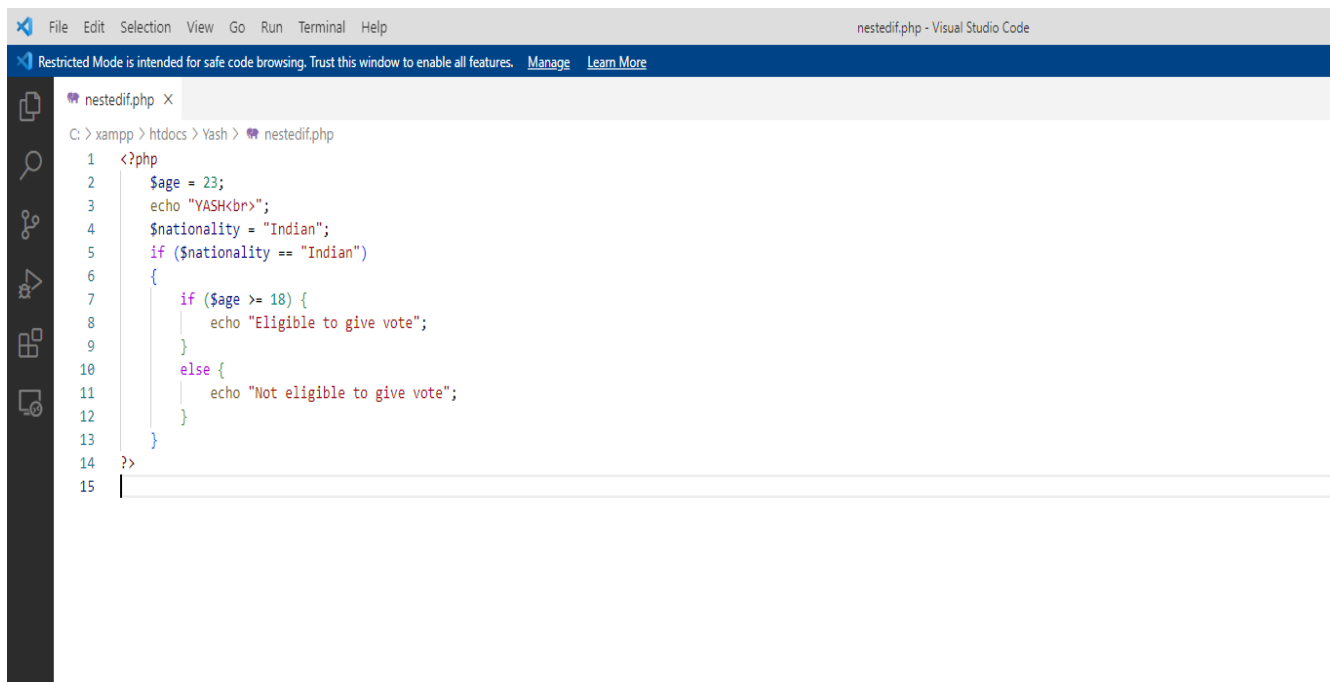## PROGRAMME 1- WRITE REGULAR EXPRESSIONS INCLUDING MODIFIERS, OPERATORS AND METACHARACTERS.

SOURCE CODE:

```php
<?php
$str = "jhon_developer";
$ptrn = "/jhon/i";

echo "YASH<br>";
echo preg_match($ptrn, $str);

echo "<br>";
echo preg_match_all($ptrn, $str);

echo "<br>";
echo preg_replace($ptrn, "Aatif", $str);
?>

<?php
$pattern = "/^color/im";
$text = "Color red is more visible than \ncolor blue in daylight.";
$matches = preg_match_all($pattern, $text, $array);
echo $matches . " matches were found."
?>

<?php
$pattern = '/\bcar\w*/';
$replacement = '<b>$0</b>';
$text = 'Words begining with car: cart, carrot, cartoon. Words ending with car: scar, oscar, supercar.';
echo "<br>";
echo preg_replace($pattern, $replacement, $text);
?>
```
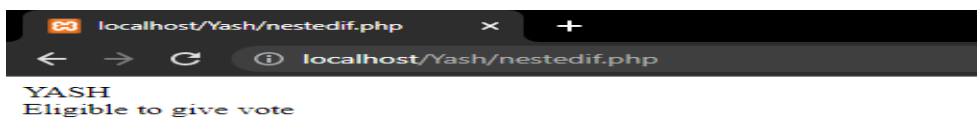
YASH
1
1
Aatif_developer 2 matches were found.
Words begining with **car**: **cart**, **carrot**, **cartoon**. Words ending with **car**: scar, oscar, supercar.

PROGRAMME 2- WAP TON SHOW THE USAGE OF NESTED IF STATEMENT?

SOURCE CODE:

```php
<?php
    $age = 23;
    echo "YASH<br>";
    $nationality = "Indian";
    if ($nationality == "Indian")
    {
        if ($age >= 18) {
            echo "Eligible to give vote";
        }
        else {
            echo "Not eligible to give vote";
        }
    }
?>
```

YASH
Eligible to give vote

PROGRAMME 3- WAP IN PHP FOR TYPE CASTING OF VARIABLES?

SOURCE CODE:


```php
<?php
echo "YASH<br>";
$a = 1;
var_dump($a);
echo "<br>";
// int to float
$a = (float) $a;
echo "<br>";
var_dump($a);
echo "<br>";
// float to double
$a = (double) $a;
echo "<br>";
var_dump($a);
echo "<br>";
// real to int
$a = (int) $a;
echo "<br>";
var_dump($a);
echo "<br>";
// int to integer
$a = (integer) $a;
echo "<br>";
var_dump($a);
echo "<br>";
// integer to bool
$a = (bool) $a;
echo "<br>";
var_dump($a);
echo "<br>";
// bool to boolean
$a = (boolean) $a;
echo "<br>";
var_dump($a);
echo "<br>";
// boolean to string
$a = (string) $a;
echo "<br>";
var_dump($a);
echo "<br>";

// string to array
$a = (array) $a;
echo "<br>";
var_dump($a);
echo "<br>";
// array to object
```


YASH
int(1)

float(1)

float(1)

int(1)

int(1)

bool(true)

bool(true)

string(1) "1"

array(1) { [0]=> string(1) "1" }

object(stdClass)#1 (1) { ["0"]=> string(1) "1" }

PRPGRAMME 4- WAP TO CREATE A MENU DRIVEN PROGRAM AND SHOW THE USAGE OF SWITCH-CASE.

SOURCE CODE :

HTML:

```html
<html>

<body>

    <form method="post" action="menu_driven.php">
        YASH <br>
        Please check the following options to Perform the operations :

        <p><input type="radio" name="operation" value="1">1 Ascending order /decending order</p>

        <p><input type="radio" name="operation" value="2">2 Sort</p>

        <p><input type="radio" name="operation" value="3">3 Filter</p>

        <p><input type="radio" name="operation" value="4">4 Merge</p>

        <p><input type="radio" name="operation" value="5">5 Intersection</p>

        <p><input type="radio" name="operation" value="6">6 UNION</p>

        <p><input type="radio" name="operation" value="7">7 DiFFERENCE</p>

        <!--<p><input type="text" name="element_vaue" value=""/>-->

        <p><input type="submit" name="submit" value="Submit"></p>

    </form>

</body>
</html>
```

PHP:

```php
<?php

$arr1 = array('a', 'b', 'c');
$arr2 = array('b', 'd', 'e');
$fruits = array("d" => "lemon", "a" => "orange", "b" => "banana", "c" => "apple");
$operation = $_POST['operation'];
switch ($operation) {

    case '1':

        echo "Original Array Elements : <PRE>";
        print_r($fruits);
        echo "</PRE>";
        ksort($fruits);
        echo " <font color=red> KSort </font><PRE>";
        foreach ($fruits as $key => $val) {

            echo "$key = $val\n";
        }
        krsort($fruits);
        echo " <font color=red> KRSort </font><PRE>";
        foreach ($fruits as $key => $val) {

            echo "$key = $val\n";
        }
        break;
    case '2':

        echo "Original Array Elements : <PRE>";
        print_r($fruits);
        echo "</PRE>";
        sort($fruits);
        echo " <font color=red> kSort </font><PRE>";
        foreach ($fruits as $key => $val) {
            echo "$key = $val\n";
        }
        break;
    case '3':

        echo "Original Array Elements : <PRE>";
        function test_odd($var)
        {

            return ($var & 1);
        }
        $a1 = array(1, 2, 3, 4);
        print_r($a1);
```

PHP:

menu_driven.php ✕

C: > xampp > htdocs > Yash > menu_driven.php

```php
47              print_r($a1);
48              echo "</PRE>";
49              echo " <font color=red> test_odd </font><PRE>";
50              print_r(array_filter($a1, "test_odd"));
51              break;
52
53          case '4':
54
55              echo "Original Array Elements : <PRE>";
56              print_r($arr1);
57              echo "</PRE>";
58              print_r($arr2);
59              echo "</br>";
60              $mer = array_merge($arr1, $arr2);
61              echo " <font color=red> Merge </font><PRE>";
62              print_r($mer);
63              echo "</br>";
64              break;
65
66          case '5':
67
68              echo "Original Array Elements : <PRE>";
69              print_r($arr1);
70              echo "</PRE>";
71              print_r($arr2);
72              echo "</br>";
73              $interset = array_intersect($arr1, $arr2);
74              echo " <font color=red> Intersection </font><PRE>";
75              print_r($interset);
76              echo "</br>";
77              break;
78
79          case '6':
80              echo "Original Array Elements : <PRE>";
81              print_r($arr1);
82              echo "</PRE>";
83              print_r($arr2);
84              echo "</br>";
85              $un1 = array_unique(array_merge($arr1, $arr2));
86              echo " <font color=red>>UNION</font><br>";
87              print_r($un1);
88              echo "</br>";
89              break;
90
91          case '7':
92              echo "Original Array Elements : <PRE>";
93              print_r($arr1);
```
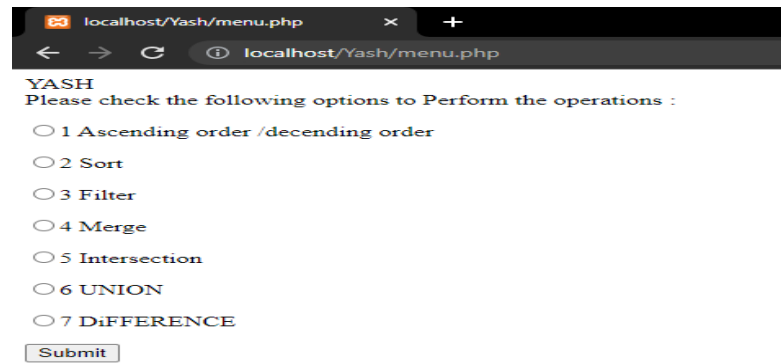
menu_driven.php ✕

C: > xampp > htdocs > Yash > menu_driven.php

```php
79          case '6':
80              echo "Original Array Elements : <PRE>";
81              print_r($arr1);
82              echo "</PRE>";
83              print_r($arr2);
84              echo "</br>";
85              $uni = array_unique(array_merge($arr1, $arr2));
86              echo " <font color=red>>UNION</font><br>";
87              print_r($uni);
88              echo "</br>";
89              break;
90
91          case '7':
92              echo "Original Array Elements : <PRE>";
93              print_r($arr1);
94              echo "</PRE>";
95              print_r($arr2);
96              echo "</PRE>";
97              $diff = array_diff($arr1, $arr2);
98              echo "DiFFERENCE<br>";
99              print_r($diff);
100             echo "</br>";
101
102             break;
103      }
104
```
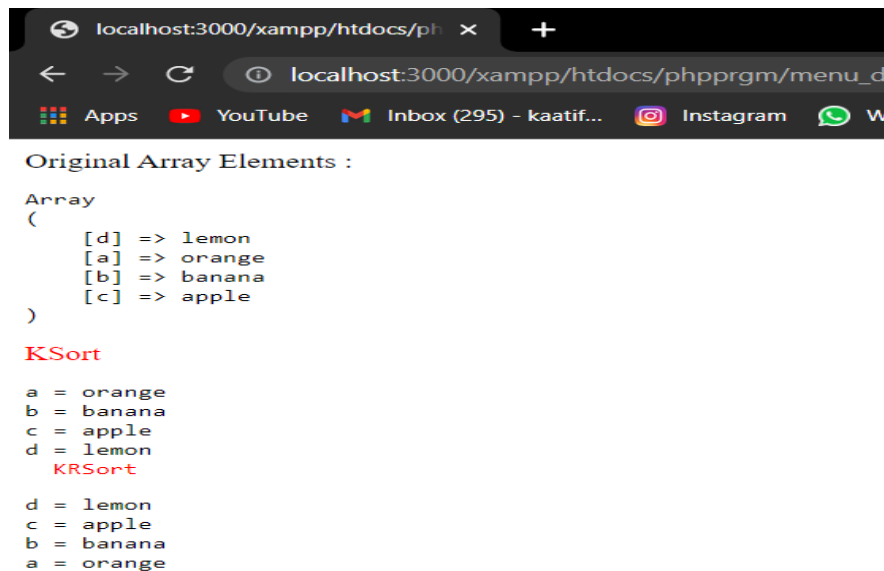
OUTPUT:

YASH
Please check the following options to Perform the operations :

○ 1 Ascending order /decending order

○ 2 Sort

○ 3 Filter

○ 4 Merge

○ 5 Intersection

○ 6 UNION

○ 7 DiFFERENCE
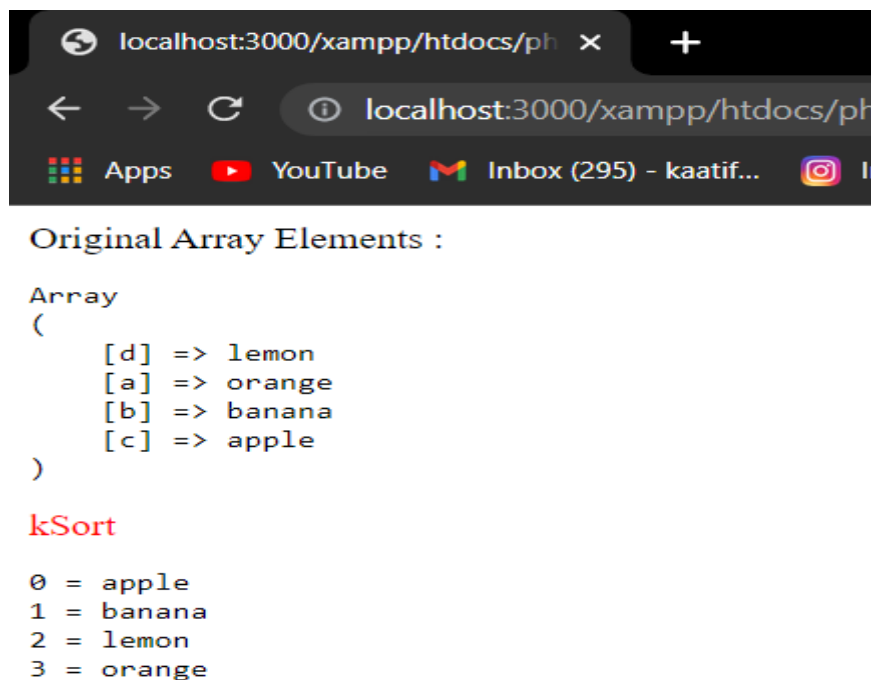
[Submit]

Original Array Elements :

```
Array
(
    [d] => lemon
    [a] => orange
    [b] => banana
    [c] => apple
)
```

KSort

```
a = orange
b = banana
c = apple
d = lemon
```
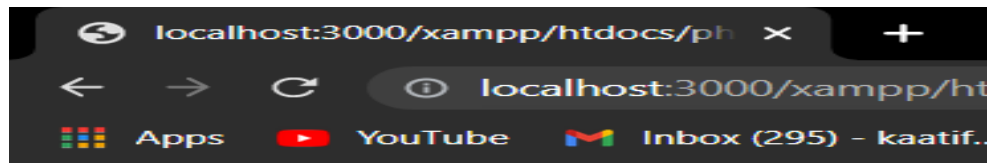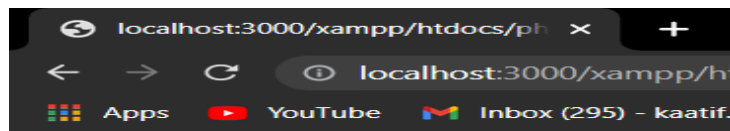 KRSort

```
d = lemon
c = apple
b = banana
a = orange
```

Original Array Elements :

```
Array
(
    [d] => lemon
    [a] => orange
    [b] => banana
    [c] => apple
)
```

kSort

```
0 = apple
1 = banana
2 = lemon
3 = orange
```

Original Array Elements :

```
Array
(
    [0] => 1
    [1] => 2
    [2] => 3
    [3] => 4
)
```

test_odd

```
Array
(
    [0] => 1
    [2] => 3
)
```

Original Array Elements :

```
Array
(
    [0] => 1
    [1] => 2
    [2] => 3
    [3] => 4
)
```

test_odd

```
Array
(
    [0] => 1
    [2] => 3
)
```
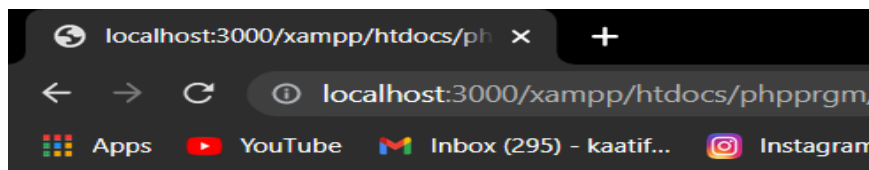
Original Array Elements :

```
Array
(
    [0] => a
    [1] => b
    [2] => c
)
```

Array ([0] => b [1] => d [2] => e)

Intersection

```
Array
(
    [1] => b
)
```

PROGRAMME 5-WAP TO SHOW THE USAGE OF FOR/WHILE/DO WHILE LOOP?

SOURCE CODE:

```php
<html>
<body bgcolor="white" text="black">
<?php
    echo"YASH<br>";
    echo"DO-WHILE LOOP<br>";
    $x = 1;
    do
    {
        echo "1 is not greater than 5";
        echo "<br>";
        $x++;
    }

    while ($x > 5);
    echo $x;
    echo "<br>";
    echo "FOR LOOP<br>";
    for($n=1;$n<=10;$n++)
    {
        echo "$n<br>";
    }
    echo"<br>";
    echo "WHILE LOOP<br>";
    $i = 'A';
    while ($i < 'H')
    {
        echo $i;
        $i++;
        echo "</br>";
    }

?>
</body>
</html>
```

localhost/Yash/loops.php

localhost/Yash/loops.php

```
YASH
DO-WHILE LOOP
1 is not greater than 5
2
FOR LOOP
1
2
3
4
5
6
7
8
9
10

WHILE LOOP
A
B
C
D
E
F
G
```

PROGRAMME 6- WAP TO PERFORM ALL TYPES OF SORTING?

SOURCE CODE:

```php
<?php
echo "YASH<br>";
$cars = array("Lamborgini", "Audi", "Toyota");
sort($cars);
print_r($cars);
echo "<br>";
$numbers = array(15, 10, 90, 22, 11);
rsort($numbers);
print_r($numbers);
echo "<br>";
$age = array("Aatif" => "15", "Siddhant" => "37", "Vansh" => "13");
asort($age);
print_r($age);
echo "<br>";
$age = array("Raghav" => "25", "Aman" => "7", "Naman" => "36");
ksort($age);
print_r($age);
echo "<br>";
$age = array("Jasnoor" => "19", "Naman" => "18", "Upanshu" => "43");
arsort($age);
print_r($age);
echo "<br>";
$age = array("Amit" => "21", "Nikhil" => "38", "Devina" => "17");
krsort($age);
print_r($age);
echo "<br>";
```

YASH
Array ([0] => Audi [1] => Lamborgini [2] => Toyota)
Array ([0] => 90 [1] => 22 [2] => 15 [3] => 11 [4] => 10)
Array ([Vansh] => 13 [Aatif] => 15 [Siddhant] => 37)
Array ([Aman] => 7 [Naman] => 36 [Raghav] => 25)
Array ([Upanshu] => 43 [Jasnoor] => 19 [Naman] => 18)
Array ([Nikhil] => 38 [Devina] => 17 [Amit] => 21)

PROGRAMME7- WAP TO IMPLEMENT ARRAY-PAD(),ARRAY_SLICE(),ARRAY SPLICE(),LIST() FUUNCTIONS?

SOURCE CODE:

```php
<?php
echo"YASH<br>";
$a=array("cat"=>10,"dog"=>12,"blue"=>11,"sky"=>14,"red"=>13);
print_r(array_pad($a,7,"red"));
echo"<br><br>";
print_r(array_slice($a,2));
echo"<br><br>";
foreach($a as $x=>$x_value)
{
    echo"key ".$x." value=".$x_value;
    echo"<br><br>";
}
$a1=array("a"=>"red","b"=>"green","c"=>"blue","d"=>"yellow");
$a2=array("a"=>"purple","b"=>"orange");
array_splice($a1,0,2,$a2);
print_r($a1);
echo"<br><br>";
$z= array("Dog","Cat","Horse");
list($a, $b, $c) = $z;
echo "Animals:<br>  $a<br>$b<br>  $c";
?>
```

localhost/Yash/arr.php

localhost/Yash/arr.php

Yash
Array ([cat] => 10 [dog] => 12 [blue] => 11 [sky] => 14 [red] => 13 [0] => red [1] => red)

Array ([blue] => 11 [sky] => 14 [red] => 13)

key cat value=10

key dog value=12

key blue value=11

key sky value=14
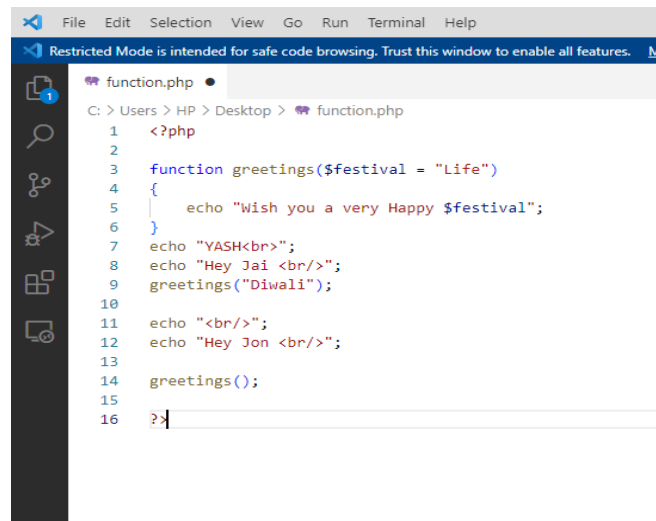
key red value=13

Array ([0] => purple [1] => orange [c] => blue [d] => yellow)
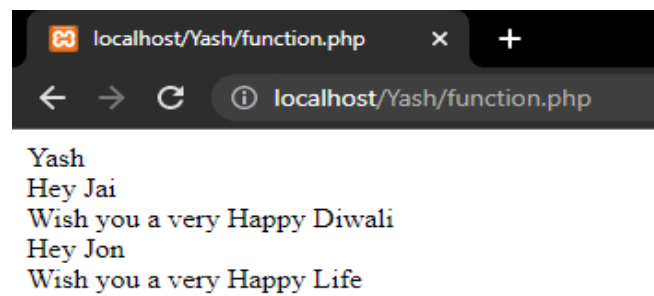
Animals:
Dog
Cat
Horse

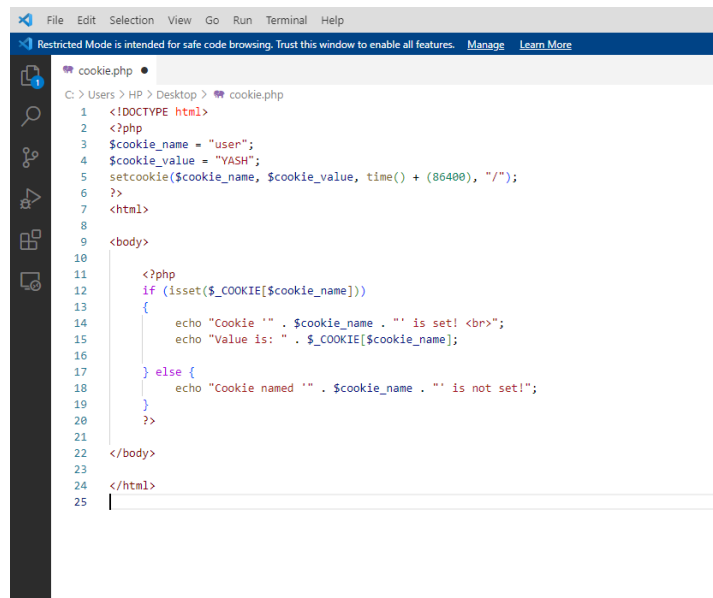# PROGRAMME 8- WAP TO SHOW THE APPLICATION OF USER DEFINED FUCNTIONS?

SOURCE CODE:


```php
<?php

function greetings($festival = "Life")
{
    echo "Wish you a very Happy $festival";
}
echo "YASH<br>";
echo "Hey Jai <br/>";
greetings("Diwali");

echo "<br/>";
echo "Hey Jon <br/>";

greetings();

?>
```


Yash
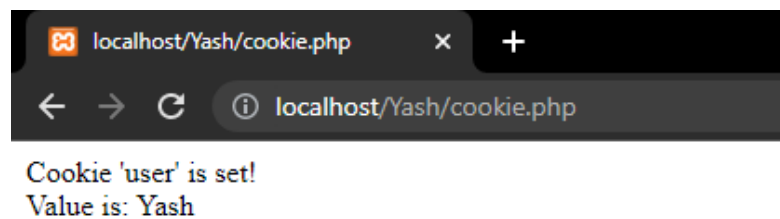Hey Jai
Wish you a very Happy Diwali
Hey Jon
Wish you a very Happy Life

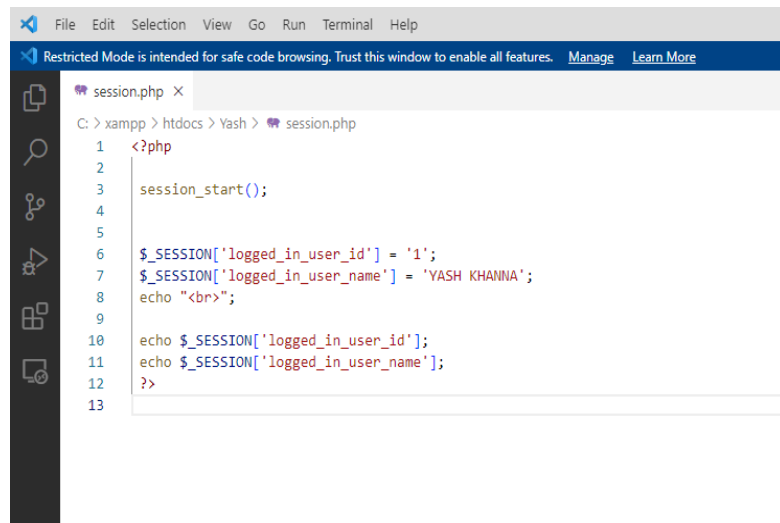## PROGRAMME10- WAP TO SHOW THE USAGE OF COOKIE.

SOURCE CODE:

```php
<!DOCTYPE html>
<?php
$cookie_name = "user";
$cookie_value = "YASH";
setcookie($cookie_name, $cookie_value, time() + (86400), "/");
?>
<html>

<body>

    <?php
    if (isset($_COOKIE[$cookie_name]))
    {
        echo "Cookie '" . $cookie_name . "' is set! <br>";
        echo "Value is: " . $_COOKIE[$cookie_name];

    } else {
        echo "Cookie named '" . $cookie_name . "' is not set!";
    }
    ?>

</body>

</html>
```

localhost/Yash/cookie.php

localhost/Yash/cookie.php

Cookie 'user' is set!
Value is: Yash

PROGRAMME11- WAP TO SHOW THE USAGE OF SESSION?

SOURCE CODE: