

Practical File of

BCA 172

(Web Based Programming)

BACHELOR OF COMPUTER APPLICATIONS

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TECNIA INSTITUTE OF ADVANCED STUDIES

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1.	Write regular expressions including modifiers, operators, and metacharacters.	
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3.	Write a Program in PHP for type Casting of Variables?	
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.	
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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?	
15.	Design a Login Form and Validate that Form using PHP Programming?	
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PROGRAMMES

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

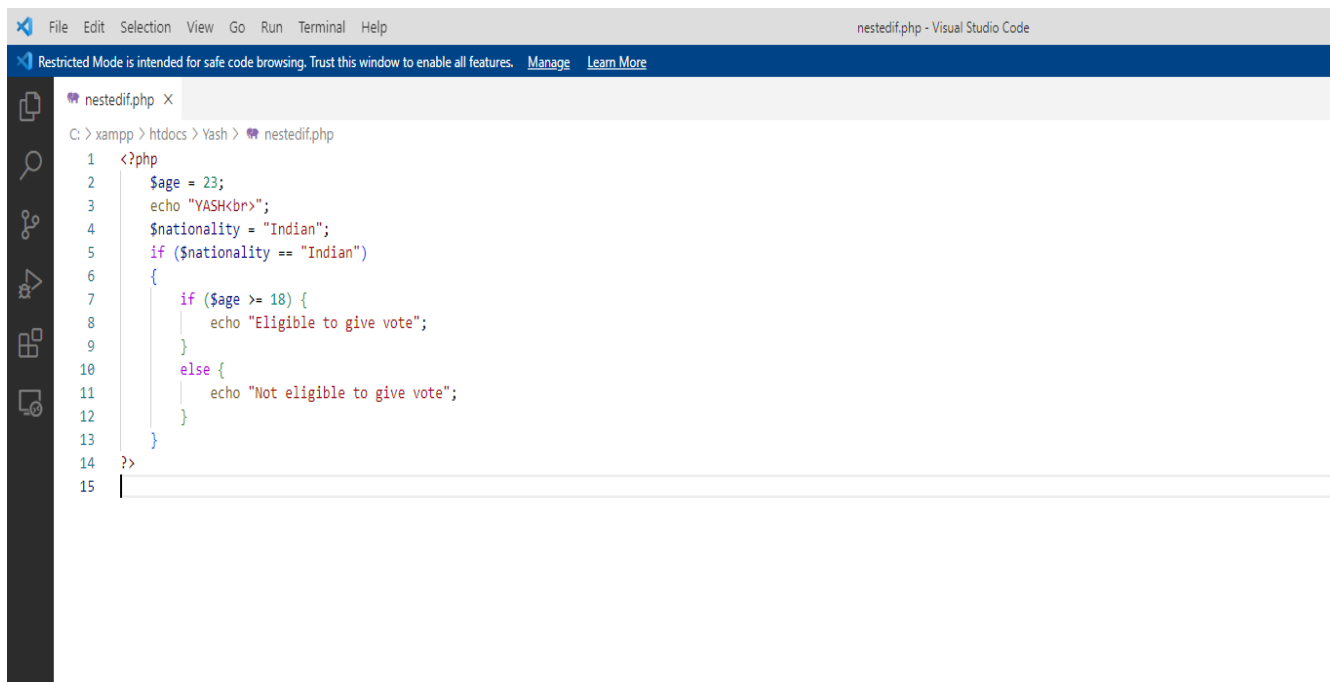
SOURCE CODE:

```
regular_exp.php x
C: > xampp > htdocs > Yash > regular_exp.php
1  <?php
2  $str = "jhon_developer";
3  $ptrn = "/jhon/i";
4
5  echo "YASH<br>";
6  echo preg_match($ptrn, $str);
7
8  echo "<br>";
9  echo preg_match_all($ptrn, $str);
10
11 echo "<br>";
12 echo preg_replace($ptrn, "Aatif", $str);
13 ?>
14
15 <?php
16 $pattern = "/^color/im";
17 $text = "Color red is more visible than \ncolor blue in daylight.";
18 $matches = preg_match_all($pattern, $text, $array);
19 echo $matches . " matches were found."
20 ?>
21
22 <?php
23 $pattern = '/\bcar\w*/';
24 $replacement = '<b>$0</b>';
25 $text = 'Words beginning with car: cart, carrot, cartoon. Words ending with car: scar, oscar, supercar.';
26 echo "<br>";
27 echo preg_replace($pattern, $replacement, $text);
28 ?>
29 |
```

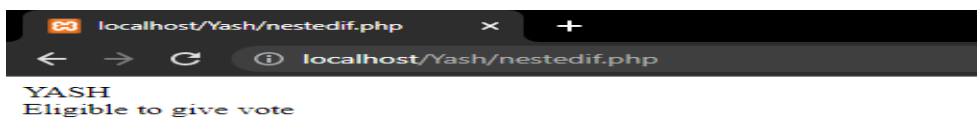
```
localhost/yash/regular_exp.php x +
localhost/yash/regular_exp.php
YASH
1
1
Aatif_developer 2 matches were found.
Words beginning with car: cart, carrot, cartoon. Words ending with car: scar, oscar, supercar.
```

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

SOURCE CODE:



```
1 <?php
2 $age = 23;
3 echo "YASH<br>";
4 $nationality = "Indian";
5 if ($nationality == "Indian")
6 {
7     if ($age >= 18) {
8         echo "Eligible to give vote";
9     }
10    else {
11        echo "Not eligible to give vote";
12    }
13 }
14 ?>
15
```



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

SOURCE CODE:

```
File Edit Selection View Go Run Terminal Help
Restricted Mode is intended for safe code browsing. Trust this window to enable all features.

type_casting.php
C: > Users > HP > Desktop > type_casting.php
1  <?php
2  echo "YASH<br>";
3  $a = 1;
4  var_dump($a);
5  echo "<br>";
6  // int to float
7  $a = (float) $a;
8  echo "<br>";
9  var_dump($a);
10 echo "<br>";
11 // float to double
12 $a = (double) $a;
13 echo "<br>";
14 var_dump($a);
15 echo "<br>";
16 // real to int
17 $a = (int) $a;
18 echo "<br>";
19 var_dump($a);
20 echo "<br>";
21 // int to integer
22 $a = (integer) $a;
23 echo "<br>";
24 var_dump($a);
25 echo "<br>";
26 // integer to bool
27 $a = (bool) $a;
28 echo "<br>";
29 var_dump($a);
30 echo "<br>";
31 // bool to boolean
32 $a = (boolean) $a;
33 echo "<br>";
34 var_dump($a);
35 echo "<br>";
36 // boolean to string
37 $a = (string) $a;
38 echo "<br>";
39 var_dump($a);
40 echo "<br>";
41
42 // string to array
43 $a = (array) $a;
44 echo "<br>";
45 var_dump($a);
46 echo "<br>";
47 // array to object
```

```
localhost/Yash/type_casting.php x +
localhost/Yash/type_casting.php

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:

```
File Edit Selection View Go Run Terminal Help menu.php - Vi
Restricted Mode is intended for safe code browsing. Trust this window to enable all features. Manage Learn More
menu.php x
C: > xampp > htdocs > Yash > menu.php
1 <html>
2
3 <body>
4
5 <form method="post" action="menu_driven.php">
6 YASH <br>
7 Please check the following options to Perform the operations :
8
9 <p><input type="radio" name="operation" value="1">1 Ascending order /descending order</p>
10
11 <p><input type="radio" name="operation" value="2">2 Sort</p>
12
13 <p><input type="radio" name="operation" value="3">3 Filter</p>
14
15 <p><input type="radio" name="operation" value="4">4 Merge</p>
16
17 <p><input type="radio" name="operation" value="5">5 Intersection</p>
18
19 <p><input type="radio" name="operation" value="6">6 UNION</p>
20
21 <p><input type="radio" name="operation" value="7">7 DIFFERENCE</p>
22
23 <!--<input type="text" name="element_vau" value="" /-->
24
25 <p><input type="submit" name="submit" value="Submit"></p>
26
27 </form>
28
29 </body>
30 </html>
```

PHP:

```
File Edit Selection View Go Run Terminal Help
Restricted Mode is intended for safe code browsing. Trust this window to enable all features. Manage Learn More
menu_driven.php x
C: > xampp > htdocs > Yash > menu_driven.php
1 <?php
2
3 $arr1 = array('a', 'b', 'c');
4 $arr2 = array('b', 'd', 'e');
5 $fruits = array("d" => "lemon", "a" => "orange", "b" => "banana", "c" => "apple");
6 $operation = $_POST['operation'];
7 switch ($operation) {
8
9     case '1':
10
11         echo "Original Array Elements : <PRE>";
12         print_r($fruits);
13         echo "</PRE>";
14         ksort($fruits);
15         echo "<font color=red> KSort </font><PRE>";
16         foreach ($fruits as $key => $val) {
17             echo "$key = $val\n";
18         }
19         krsort($fruits);
20         echo "<font color=red> KRSort </font><PRE>";
21         foreach ($fruits as $key => $val) {
22             echo "$key = $val\n";
23         }
24         break;
25     case '2':
26
27         echo "Original Array Elements : <PRE>";
28         print_r($fruits);
29         echo "</PRE>";
30         sort($fruits);
31         echo "<font color=red> kSort </font><PRE>";
32         foreach ($fruits as $key => $val) {
33             echo "$key = $val\n";
34         }
35         break;
36     case '3':
37
38         echo "Original Array Elements : <PRE>";
39         function test_odd($var)
40         {
41             return ($var & 1);
42         }
43
44         $a1 = array(1, 2, 3, 4);
45         print_r($a1);
46
47 }
```

PHP:

```
File Edit Selection View Go Run Terminal Help
Restricted Mode is intended for safe code browsing. Trust this window to enable all features. Manage Learn

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

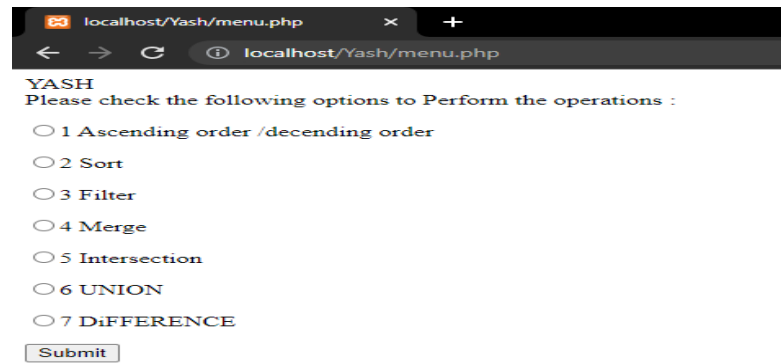
47 print_r($a1);
48 echo "</PRE>";
49 echo "<font color=red> test_odd </font><PRE>";
50 print_r(array_filter($a1, "test_odd"));
51 break;
52
53 case '4':
54
55     echo "Original Array Elements : <PRE>";
56     print_r($arr1);
57     echo "</PRE>";
58     print_r($arr2);
59     echo "</br>";
60     $mer = array_merge($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     $intersect = array_intersect($arr1, $arr2);
74     echo "<font color=red> Intersection </font><PRE>";
75     print_r($intersect);
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     $uni = array_unique(array_merge($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);
```

```
File Edit Selection View Go Run Terminal Help
Restricted Mode is intended for safe code browsing. Trust this window to enable all features. Manage Learn

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

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

OUTPUT:

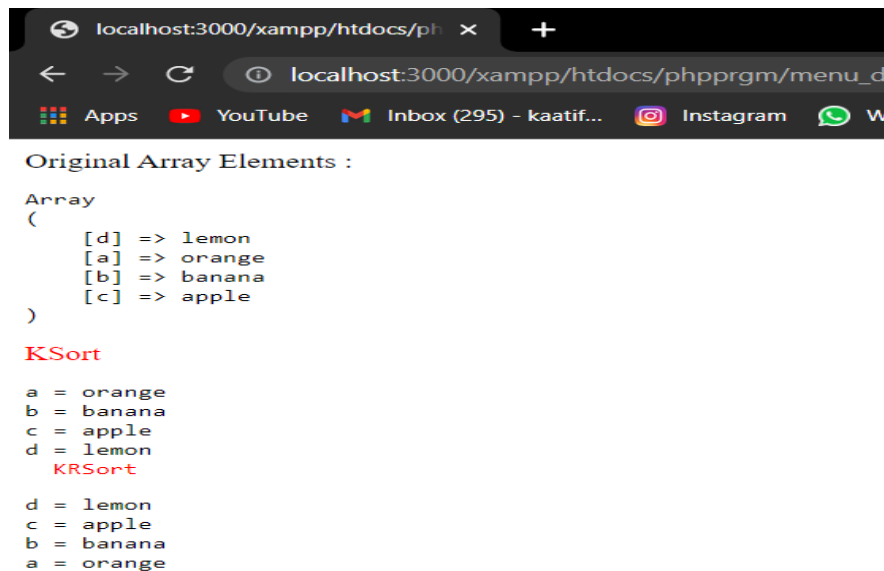


localhost/Yash/menu.php

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



localhost:3000/xampp/htdocs/ph

localhost:3000/xampp/htdocs/phpprgm/menu_d

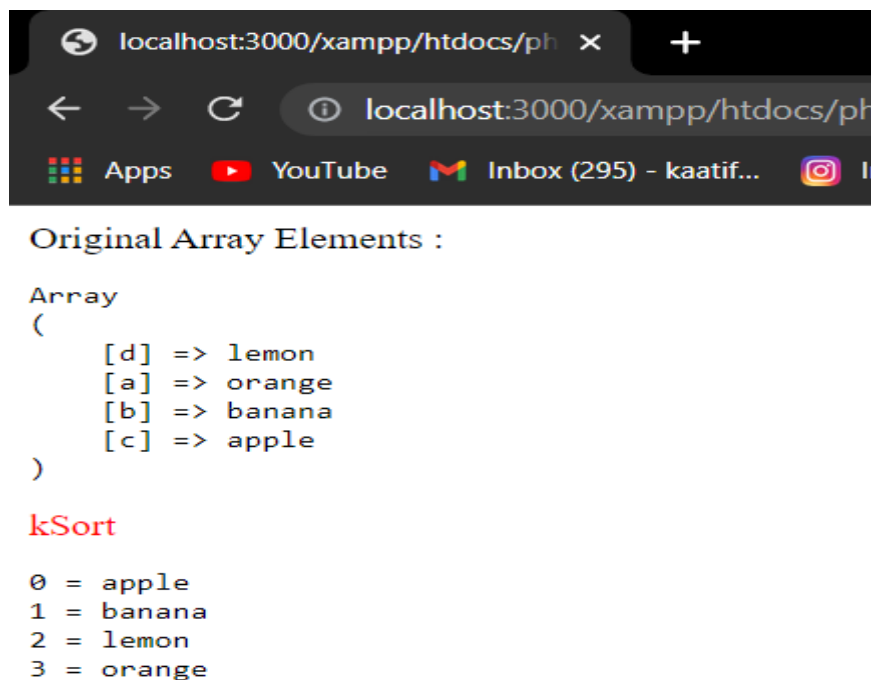
Original Array Elements :

```
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
```



localhost:3000/xampp/htdocs/ph

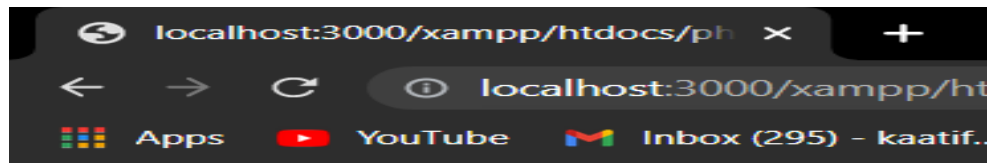
localhost:3000/xampp/htdocs/ph

Original Array Elements :

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

kSort

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

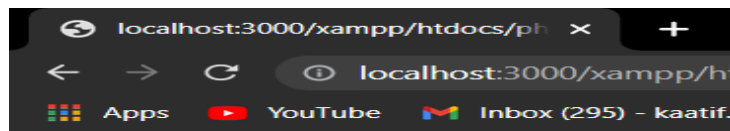



Original Array Elements :

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

test_odd

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

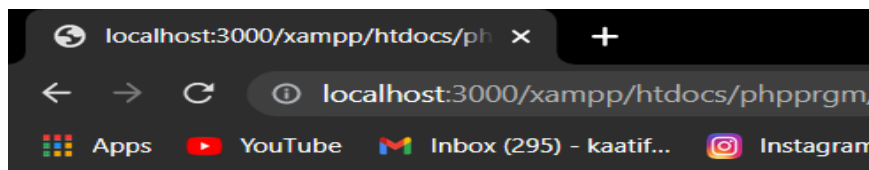


Original Array Elements :

```
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:

```
File Edit Selection View Go Run Terminal Help
Restricted Mode is intended for safe code browsing. Trust this window to enable all features.
loops.php x
C: > xampp > htdocs > Yash > loops.php
1 <html>
2 <body bgcolor="white" text="black">
3 <?php
4     echo "YASH<br>";
5     echo "DO-WHILE LOOP<br>";
6     $x = 1;
7     do
8     {
9         echo "1 is not greater than 5";
10        echo "<br>";
11        $x++;
12    }
13
14    while ($x > 5);
15    echo $x;
16    echo "<br>";
17    echo "FOR LOOP<br>";
18    for($n=1;$n<=10;$n++)
19    {
20        echo "$n<br>";
21    }
22    echo "<br>";
23    echo "WHILE LOOP<br>";
24    $i = 'A';
25    while ($i < 'H')
26    {
27        echo $i;
28        $i++;
29        echo "<br>";
30    }
31
32 ?>
33 </body>
34 </html>
```

```
localhost/Yash/loops.php x +
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:

```
File Edit Selection View Go Run Terminal Help
Restricted Mode is intended for safe code browsing. Trust this window to enable all features. Manage Learn More
sorting.php X
C: > xampp > htdocs > Yash > sorting.php
1 <?php
2 echo "YASH<br>";
3 $cars = array("Lamborghini", "Audi", "Toyota");
4 sort($cars);
5 print_r($cars);
6 echo "<br>";
7 $numbers = array(15, 10, 90, 22, 11);
8 rsort($numbers);
9 print_r($numbers);
10 echo "<br>";
11 $age = array("Aatif" => "15", "Siddhant" => "37", "Vansh" => "13");
12 asort($age);
13 print_r($age);
14 echo "<br>";
15 $age = array("Raghav" => "25", "Aman" => "7", "Naman" => "36");
16 ksort($age);
17 print_r($age);
18 echo "<br>";
19 $age = array("Jasnoor" => "19", "Naman" => "18", "Upanshu" => "43");
20 arsort($age);
21 print_r($age);
22 echo "<br>";
23 $age = array("Amit" => "21", "Nikhil" => "38", "Devina" => "17");
24 krsort($age);
25 print_r($age);
26 echo "<br>";
27
```

```
localhost/Yash/sorting.php X +
localhost/Yash/sorting.php
YASH
Array ( [0] => Audi [1] => Lamborghini [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:

```
File Edit Selection View Go Run Terminal Help
Restricted Mode is intended for safe code browsing. Trust this window to enable all features. Manage Learn More
arr.php
C: > Users > HP > Desktop > arr.php
1  <?php
2  echo "YASH<br>";
3  $a=array("cat"=>10,"dog"=>12,"blue"=>11,"sky"=>14,"red"=>13);
4  print_r(array_pad($a,7,"red"));
5  echo "<br><br>";
6  print_r(array_slice($a,2));
7  echo "<br><br>";
8  foreach($a as $x=>$x_value)
9  {
10     echo "key ".$x." value=".$x_value;
11     echo "<br><br>";
12 }
13 $a1=array("a"=>"red","b"=>"green","c"=>"blue","d"=>"yellow");
14 $a2=array("a"=>"purple","b"=>"orange");
15 array_splice($a1,0,2,$a2);
16 print_r($a1);
17 echo "<br><br>";
18 $z= array("Dog","Cat","Horse");
19 list($a,$b,$c) = $z;
20 echo "Animals:<br> $a<br>$b<br> $c";
21 ?>
22
```

```
localhost/Yash/arr.php x +
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

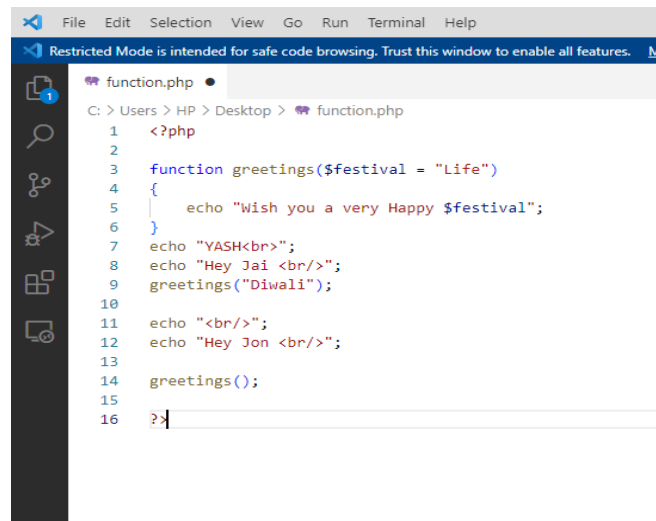
key red value=13

Array ( [0] => purple [1] => orange [c] => blue [d] => yellow )

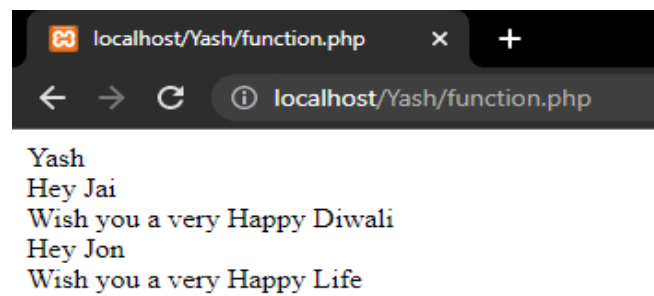
Animals:
Dog
Cat
Horse
```

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

SOURCE CODE:



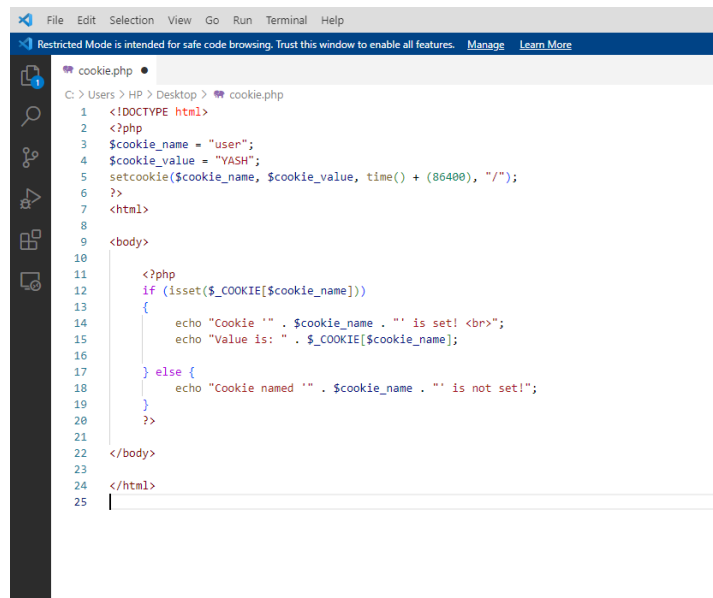
```
function.php
C: > Users > HP > Desktop > function.php
1  <?php
2
3  function greetings($festival = "Life")
4  {
5      echo "Wish you a very Happy $festival";
6  }
7  echo "YASH<br>";
8  echo "Hey Jai <br/>";
9  greetings("Diwali");
10
11 echo "<br/>";
12 echo "Hey Jon <br/>";
13
14 greetings();
15
16 ?>
```



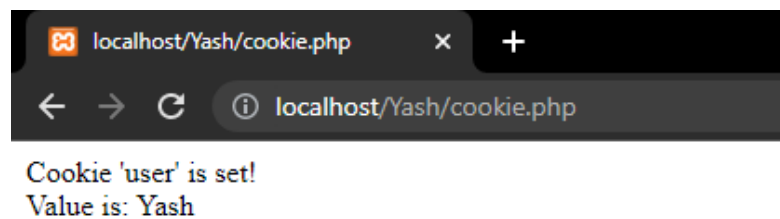
```
localhost/Yash/function.php
localhost/Yash/function.php
Yash
Hey Jai
Wish you a very Happy Diwali
Hey Jon
Wish you a very Happy Life
```

PROGRAMME10- WAP TO SHOW THE USAGE OF COOKIE.

SOURCE CODE:

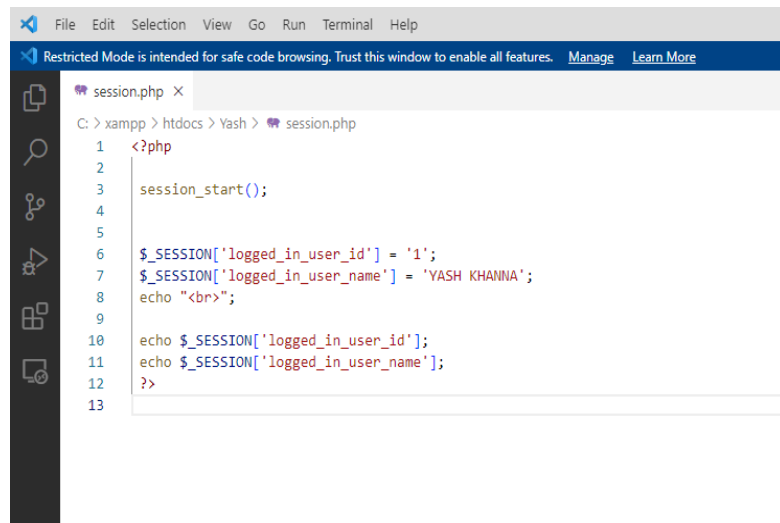


```
File Edit Selection View Go Run Terminal Help
Restricted Mode is intended for safe code browsing. Trust this window to enable all features. Manage Learn More
cookie.php
C:\Users\> HP > Desktop > cookie.php
1 <!DOCTYPE html>
2 <?php
3 $cookie_name = "user";
4 $cookie_value = "YASH";
5 setcookie($cookie_name, $cookie_value, time() + (86400), "/");
6 ?>
7 <html>
8
9 <body>
10
11 <?php
12 if (isset($_COOKIE[$cookie_name]))
13 {
14     echo "Cookie '" . $cookie_name . "' is set! <br>";
15     echo "Value is: " . $_COOKIE[$cookie_name];
16 }
17 } else {
18     echo "Cookie named '" . $cookie_name . "' is not set!";
19 }
20 ?>
21
22 </body>
23
24 </html>
25
```



PROGRAMME11- WAP TO SHOW THE USAGE OF SESSION?

SOURCE CODE:

A screenshot of a code editor window. The title bar shows 'session.php' and a close button. Below the title bar is a blue banner with the text 'Restricted Mode is intended for safe code browsing. Trust this window to enable all features.' and links for 'Manage' and 'Learn More'. The editor has a dark sidebar on the left with icons for file explorer, search, source control, and other tools. The main area shows PHP code for a session. The code starts with a PHP opening tag, followed by 'session_start();'. Then, two session variables are set: '\$_SESSION['logged_in_user_id'] = '1';' and '\$_SESSION['logged_in_user_name'] = 'YASH KHANNA';'. An 'echo' statement prints a newline character. Finally, two 'echo' statements output the session variables, followed by a closing PHP tag. Line numbers 1 through 13 are visible on the left side of the code area.

```
1 <?php
2
3 session_start();
4
5
6 $_SESSION['logged_in_user_id'] = '1';
7 $_SESSION['logged_in_user_name'] = 'YASH KHANNA';
8 echo "<br>";
9
10 echo $_SESSION['logged_in_user_id'];
11 echo $_SESSION['logged_in_user_name'];
12 ?>
13
```