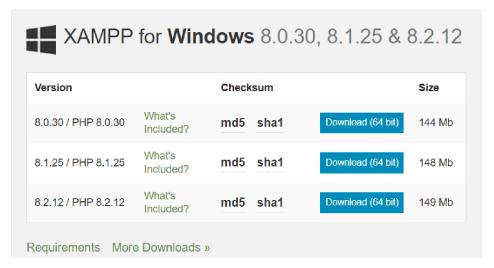
PRACTICAL - 01

Aim: - A] Install and configure PHP, Web Server and MySQL database Using XAMPP/WAMP/LAMP/MAMP.

STEP 1- Open any web browser and visit https://www.apachefriends.org/index.html. On the home page, you can find the option to download XAMPP for three platforms- Windows, MAC, and Linux. Click on **XAMPP for Windows**. The latest version available on the website is **7.4.5.**



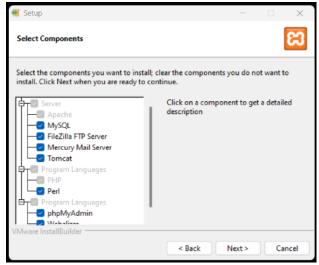
STEP 2- After the download is completed, double click the .exe extension file to start the process of installation.

STEP 3- A pop-up screen with the message asking you to allow making changes on your desktop appears. Click "YES" to continue the process.



STEP 4- Click to **Allow access** or deactivate the firewall and any other antivirus software because it can hamper the process of installation. Thus, it is required to temporarily disable any antivirus software or security firewall till the time all the XAMPP components have been installed completely.

- **STEP 5-** Just before the installation, a pop-up window appears with a warning to **disable UAC**. User Account Control (UAC) interrupts the XAMPP installation because it restricts the access to write to the C: drive. Therefore, it is suggested to disable it for the period of installation.
- **STEP 6-** After clicking the .exe extension file, the XAMPP setup wizard opens spontaneously. Click on "NEXT" to start the configuration of the settings.
- **STEP 7-** After that, a 'Select Components' panel appears, which gives you the liberty to choose amongst the separate components of the XAMPP software stack for the installation. To get a complete localhost server, it is recommended to install using the default options of containing all available components. Click "NEXT" to proceed further.



- **STEP 8-** The setup is now ready to install, and a pop-up window showing the same appears on the screen. Click "NEXT" to take the process forward.
- **STEP 9-** Select the location where the XAMPP software packet needs to be installed. The original setup creates a folder titled XAMPP under C:\ for you. After choosing a location, click "NEXT".
- **STEP 11-** After the successful installation of the XAMPP setup on your desktop, press the "FINISH" button.

Aim: - B] Create a web page that displays "Hello World."

```
CODE: -
<!DOCTYPE html>
<html>
<head>
    <meta charset='utf-8'>
    <meta http-equiv='X-UA-Compatible' content='IE=edge'>
    <title>HELLO WORLD USING PHP</title>
    <meta name='viewport' content='width=device-width, initial-</pre>
scale=1'>
    <style>
        body
        {
            font-size: 28px;
            text-align: center;
            color: red;
        }
    </style>
</head>
<body>
    <div class="container">
        <?php echo "<h1>Hello World!</h1>"; ?>
    </div>
</body>
</html>
OUTPUT:-
☐ HELLO WORLD USING PHP × +
```

Hello World!

localhost/KUSH_70_PHP/HELLO_WORLD.php

PRACTICAL - 02

Aim: - Create a web page that collects user information using a form and displays it when the user clicks the submit button.

CODE:-

```
<!DOCTYPE html>
<html>
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-</pre>
scale=1.0">
    <title>USER INFORMATION FORM</title>
</head>
<body>
<div class="container">
  <h1>User Information</h1>
  <form action="" method = "POST" id="userForm">
    <label for="name">Name:</label>
    <input type="text" id="name" name="name" required placeholder =</pre>
"Kush Amit Shah"><br>
    <label for="age">Age:</label>
    <input type="number" id="age" name="age" min="0" required</pre>
placeholder = "17"><br>
    <label for="age">Phone Number:</label>
    <input type="number" id="pn" name="pn" min="0" required</pre>
placeholder = "2260703070"><br>
    <label for="age">Email:</label>
    <input type="emial" id="email" name="email" required placeholder</pre>
= "kush@bbit.ac.in"><br>
    <label for="age">City:</label>
    <input type="text" id="city" name="city" required placeholder =</pre>
"Nadiad"><br>
    <button type="submit">Submit</button>
  </form>
  <h2>KINDLY CHECK YOUR DETAILS:</h2>
  <?PHP
    if($ SERVER['REQUEST METHOD'] == "POST"){
      $name final = filter var($ POST['name']);
      $age final = filter var($ POST['age'],
FILTER SANITIZE NUMBER INT);
      $pn final = filter var($ POST['pn'],
FILTER SANITIZE NUMBER INT);
```

```
$email_final = filter_var($_POST['email'],
FILTER_SANITIZE_EMAIL);
    $city_final = filter_var($_POST['city']);
    echo "NAME : " .$name_final. " ";
    echo "AGE : " .$age_final. " ";
    echo "NAME : " .$pn_final. " ";
    echo "AGE : " .$email_final. " ";
    echo "CITY : " .$city_final. " ";
}
</div></body></html>
```

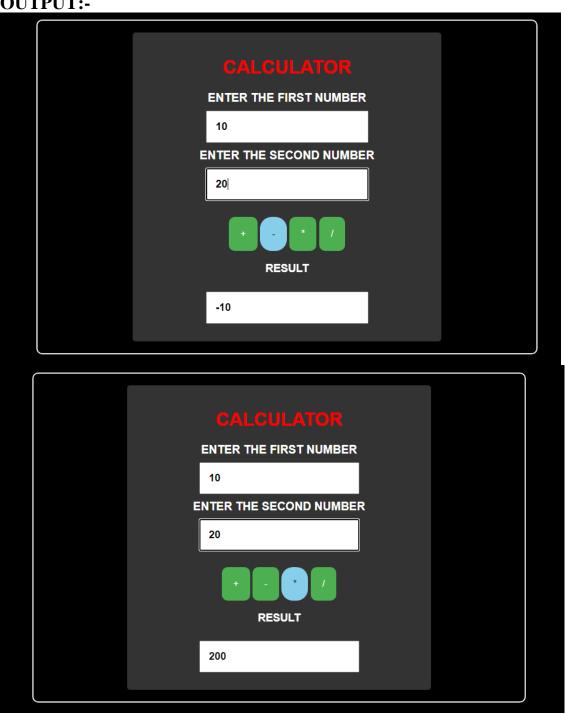


PRACTICAL - 03

Aim: - A] Write a script to implement a simple calculator for mathematical operations.

```
CODE:-
<!DOCTYPE html>
<html>
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-</pre>
scale=1.0">
    <title>SIMPLE CALCULATOR</title>
<?php
     result = 0;
     if(isset($_POST['var'])){
           $num_1 = $_POST['num1'];
           num 2 = POST['num2'];
           $operator = $_POST['var'];
           if ($operator == "+") {
                 result = num 1 + num 2;
           }
           else if ($operator == "-"){
                result = num 1 - num 2;
           else if ($operator == "*"){
                $result = $num 1 * $num 2;
           else if ($operator == "/"){
                $result = $num 1 / $num 2;
           }
     }
?>
</head>
<body>
     <div class="container">
           <form action="" method="POST">
                 <h1 style="color: red;">CALCULATOR</h1>
           <label for="num1">ENTER THE FIRST NUMBER</label>
           <input type="text" name="num1" placeholder="EG: 10"</pre>
required><br>
           <label for="num1">ENTER THE SECOND NUMBER</label>
           <input type="text" name="num2" placeholder="EG: 20"</pre>
required><br><br><
           <button type="submit" name="var" value="+" required> +
     </button>
```

```
<button type="submit" name="var" value="-" required>
     </button>
          <button type="submit" name="var" value="*" required>
     </button>
          <button type="submit" name="var" value="/" required> /
     </button>
          <h3>RESULT </h3><input type="text" value = "<?php echo
$result ?>" readonly>
</form></div></body></html>
```



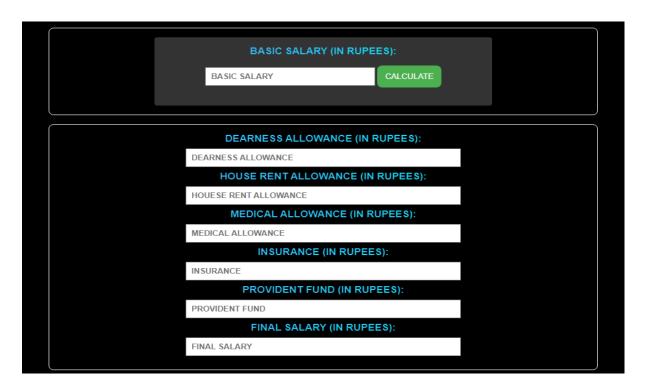
Aim: - B] A company has following payment scheme for their staff:

- a. Net Salary = Gross Salary Deduction
- b. Gross Salary = Basic pay + DA + HRA + Medical
- c. Deduction = Insurance + PF
- d. DA (Dearness Allowance) = 50% of Basic pay
- e. HRA (House Rent Allowance) = 10% of Basic pay
- **f.** Medical = 4% of Basic pay
- g. Insurance = 7% of Gross salary
- h. PF (Provident Fund) = 5% of Gross salary

Write a script to take the basic salary of an employee as input and calculate the net payment to any employee.

```
CODE:-
<!DOCTYPE html>
<html>
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width,</pre>
initial-scale=1.0">
    <title>SALARY CALCULATOR</title>
    if (isset($_POST['SUB'])) {
        $bs = $_POST['BS'];
        d = hra = med = gs = in = pf = ded = fs =
'';
        da = bs * 0.50;
        hra = bs * 0.10;
        med = bs * 0.04;
        \$gs = \$bs + \$da + \$hra + \$med;
        \sin = \$gs * 0.07;
        pf = ps * 0.05;
        d = \sin + pf;
        fs = gs - ded;
    }
    ?>
</head>
<body>
    <div class="container">
        <form action="" method="POST">
```

```
<label for="age">BASIC SALARY (IN
RUPEES):</label>
             <input type="text" name="BS"</pre>
placeholder="BASIC SALARY" value="<?php echo isset($bs) ?</pre>
$bs : ''; ?>" required>
             <button type="submit"</pre>
name="SUB">CALCULATE</button>
</form>
</div>
    <div class="container">
             <label for="age">DEARNESS ALLOWANCE (IN
RUPEES):</label>
             <input type="text" name="DA"</pre>
placeholder="DEARNESS ALLOWANCE" value="<?php echo
isset($da) ? $da : ''; ?>" required>
             <label for="age">HOUSE RENT ALLOWANCE (IN
RUPEES):</label>
             <input type="text" name="HRA"</pre>
placeholder="HOUESE RENT ALLOWANCE" value="<?php echo
isset($hra) ? $hra : ''; ?>" required>
             <label for="age">MEDICAL ALLOWANCE (IN
RUPEES):</label>
             <input type="text" name="MED"</pre>
placeholder="MEDICAL ALLOWANCE" value="<?php echo</pre>
isset($med) ? $med : ''; ?>" required>
             <label for="age">INSURANCE (IN
RUPEES):</label>
             <input type="text" name="IN"</pre>
placeholder="INSURANCE" value="<?php echo isset($in) ? $in</pre>
: ''; ?>" required>
             <label for="age">PROVIDENT FUND (IN
RUPEES):</label>
             <input type="text" name="PF"</pre>
placeholder="PROVIDENT FUND" value="<?php echo isset($pf)</pre>
? $pf : ''; ?>" required>
             <label for="age">FINAL SALARY (IN
RUPEES):</label>
             <input type="text" name="FS"</pre>
placeholder="FINAL SALARY" value="<?php echo isset($fs) ?</pre>
$fs : ''; ?>" required>
    </div></body></html>
```





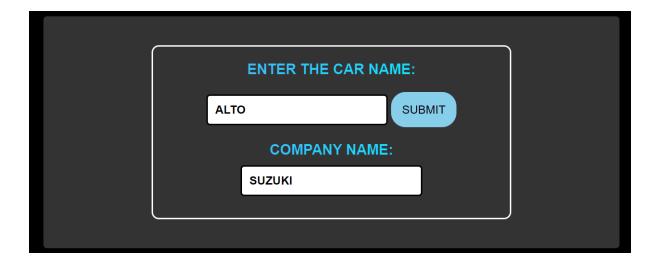
PRACTICAL - 04

Aim: - A] Write a script that reads the name of the car and displays the name of the company the car belongs to as per the below table:

Car	Company	
Safari, Nexon, Tigor, Tiago	Tata	
XUV700, XUV300, Bolero	Mahindra	
i20, Verna, Venue, Creta	Hyundai	
Swift, Alto, Baleno, Brezza	Suzuki	

```
CODE: -
<!DOCTYPE html>
<html>
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width,</pre>
initial-scale=1.0">
    <title>CAR COMPANY FINDER</title>
<?php
    if (isset($ POST['car name'])) {
        $name = strtoupper($ POST['car name']);
        $comp = "";
        $name = $ POST['car name'];
        if($name == "SAFARI" || $name == "NEXON" || $name
== "TIGOR" || $name == "TIAGO") {
            $comp = "TATA";
        } else if($name == "XUV700" || $name == "XUV300"
|| $name == "BOLERO") {
            $comp = "MAHINDRA";
        } else if($name == "I20" || $name == "VERNA" ||
$name == "VENUE" || $name == "CRETA") {
            $comp = "HYUNDAI";
        } else if($name == "SWIFT" || $name == "ALTO" ||
$name == "BOLENO" || $name == "BREZZA") {
            $comp = "SUZUKI";
        } else {
            $comp = "SORRY! NO DATA FOUND...";
```

```
}
    }
?>
</head>
<body>
<form action = "" method = "POST">
    <div class="container">
        <label for="car">ENTER THE CAR NAME:</label>
        <input type="text" name="car name"</pre>
placeholder="EG: MERCEDES" required>
        <button type="submit" name="SUB">SUBMIT</button>
        <label for="comp name">COMPANY NAME:</label>
        <input type="text" name="res" placeholder="COMPANY</pre>
NAME" value="<?php echo isset($comp) ? $comp : ''; ?>"
readonly>
    </div>
</body>
</html>
```



Aim: - B] Write a script to read the marks of 4 subjects and display the result as per the below instructions:

GTU GRADE	MARK-RANGE	
AA	85-100	
AB	75-84	
ВВ	65-74	
ВС	55-64	
CC	45-54	
CD	40-44	
DD	35-39	
FF	<35 (FAIL)	

CODE: -

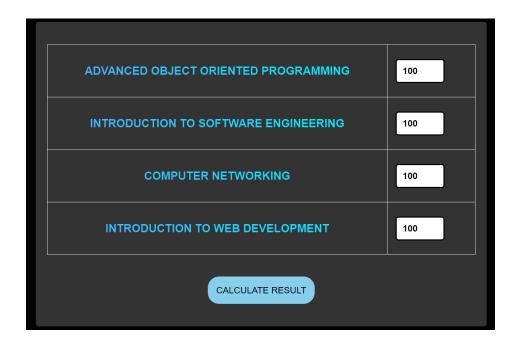
```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width,</pre>
initial-scale=1.0">
    <title>GTU GRADE CALCULATOR</title>
   <?php
   if (isset($_POST['calculate'])) {
       $subjects = array("ADVANCED OBJECT ORIENTED
PROGRAMMING", "INTRODUCTION TO SOFTWARE ENGINEERING",
"COMPUTER NETWORKING", "INTRODUCTION TO WEB DEVELOPMENT");
       $marks = array($ POST['aoop'], $ POST['ise'],
$_POST['cn'], $_POST['iwd']);
       $grades = array();
       echo "<h3>RESULT</h3>";
       echo "";
       echo
"SUBJECTMARKSGRADE";
       for ($i = 0; $i < count($subjects); $i++) {</pre>
```

```
mark = marks[$i];
       if ($mark >= 85) $grade = "AA";
       elseif ($mark >= 75) $grade = "AB";
       elseif ($mark >= 65) $grade = "BB";
       elseif ($mark >= 55) $grade = "BC";
       elseif ($mark >= 45) $grade = "CC";
       elseif ($mark >= 40) $grade = "CD";
       elseif ($mark >= 35) $grade = "DD";
       else $grade = "FF";
       echo "" . $subjects[$i] . "" .
$mark . "<input type='text' value='" . $grade .</pre>
"' readonly>";
       }
       echo "";
       $overallResult = "CONGRATULATIONS! YOU HAVE PASSED
THE EXAM.";
       $mark1 = $_POST['aoop'];
       mark2 = POST['ise'];
       $mark3 = $_POST['cn'];
       mark4 = \POST['iwd'];
       if ($mark1 < 35 || $mark2 < 35 || $mark3 < 35 ||
$mark4 < 35) {
           $overallResult = "NEEDS IMPROVEMENT";
       echo "<h3>OVERALL RESULT: $overallResult</h3>";
   }
   ?>
</head>
<body>
   <form action="" method="post">
<label for="aoop">ADVANCED OBJECT ORIENTED
PROGRAMMING</label>
              <input type="number" name="aoop"
min="0" max="100" required>
<label for="ise">INTRODUCTION TO SOFTWARE
ENGINEERING</label></rr>
<input type="number" name="ise" min="0" max="100"
required>tr>tr>
<label for="cn">COMPUTER NETWORKING</label>
```

```
<input type="number" name="cn" min="0" max="100"
required><
<td><tabel for="iwd">INTRODUCTION TO WEB

DEVELOPMENT</label>

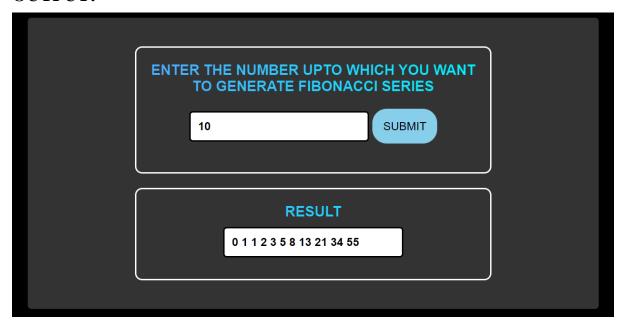
td><input type="number" name="iwd" min="0" max="100"
required><br><button type="submit" name="calculate">CALCULATE
RESULT</button></form>
</body>
</html>
```



RESULT				
SUBJECT	MARKS	GRADE		
ADVANCED OBJECT ORIENTED PROGRAMMING	100	АА		
INTRODUCTION TO SOFTWARE ENGINEERING	100	AA		
COMPUTER NETWORKING	100	АА		
INTRODUCTION TO WEB DEVELOPMENT	100	AA		
OVERALL RESULT: CONGRATULATIONS! YOU HAVE PASSED THE EXAM.				

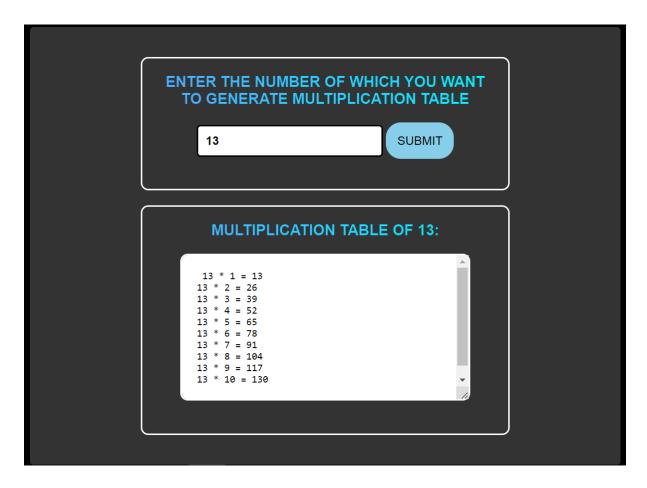
Aim: - C] Write a script to display Fibonacci numbers up to a given term.

```
CODE: -
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width,</pre>
initial-scale=1.0">
    <title>FIBONACCI CREATOR</title>
 <?php
    $series = " ";
    if (isset($_POST['size'])) {
        $fibo = $ POST['size'];
        $a = 0;
        b = 1;
        $series = "";
        result = 0;
        for($i = 0; $i <= $fibo; $i++){</pre>
            $series .= $a . " ";
            result = a + b;
            a = b;
            $b= $result;
        }
    }
  > 5
</head>
<body>
<form action = '' method = 'POST'>
    <div class="container">
        <label for = "size">ENTER THE NUMBER UPTO WHICH
YOU WANT TO GENERATE FIBONACCI SERIES</label>
```



Aim: - D] Write a script to display a multiplication table for the given number.

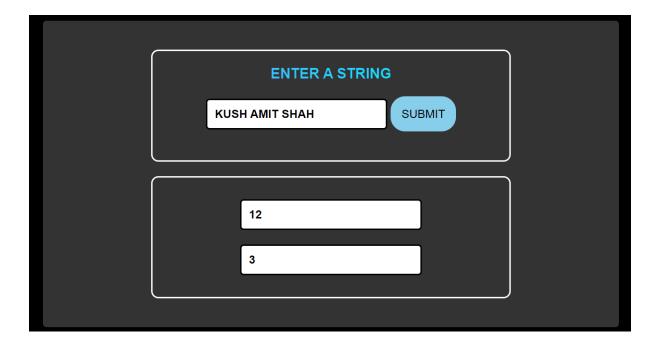
```
CODE: -
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width,</pre>
initial-scale=1.0">
    <title>MULTIPLICATION TABLE</title>
  <?php
       $series = " ";
       if (isset($ POST['number'])) {
        $num = $ POST['number'];
        result = 0;
        for (\$i = 1; \$i <= 10; \$i++) {
            result = num * i;
            $series .= "$num * $i = $result".PHP EOL;
        }
    }
?>
</head>
<body>
<form action = '' method = 'POST'>
    <div class="container">
        <label for = "size">ENTER THE NUMBER OF WHICH YOU
WANT TO GENERATE MULTIPLICATION TABLE</label>
        <input type = "number" name = "number" placeholder</pre>
= " EG:- 10">
        <button type="submit" name="SUB">SUBMIT</button>
    </div>
    <div class="container">
        <label for = "size">MULTIPLICATION TABLE OF <?php</pre>
echo $num?>:</label>
        <textarea><?php echo $series;?> </textarea>
    </div>
</form>
</body>
</html>
```



PRACTICAL - 05

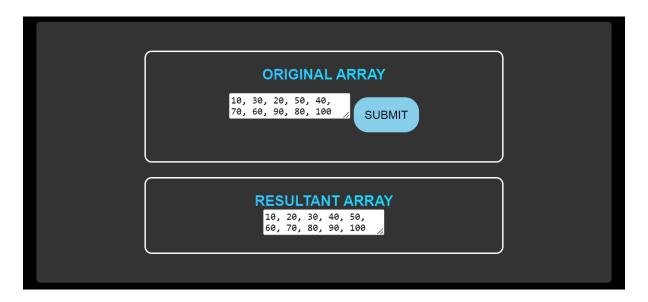
Aim: - A] Write a script to calculate the length of a string and count the number of words in the given string without using string functions.

```
CODE: -
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width,</pre>
initial-scale=1.0">
    <title>LENGTH AND WORDS COUNTER</title>
<?php
    length = 0;
    $wordCount = 0;
    if (isset($_POST['string'])) {
       $string = $ POST['string'];
       for ($i = 0; $i < strlen($string); $i++) {
           if ($string[$i] != " ") {
               $length++;
           if ($string[$i] == " " && $string[$i-1] != " ")
{
               $wordCount++;
           }
       }
       if ($length > 0 && $string[0] != " ") {
           $wordCount++;
       }
    }
>
</head>
<body>
<form action = "" method = "POST">
    <div class="container">
        <label for = "string">ENTER A STRING</label>
        <input type = "text" name = "string" placeholder =</pre>
" EG: KUSH SHAH">
        <button type="submit" name="SUB">SUBMIT</button>
    </div>
```



Aim: - B] Write a script to sort a given indexed array.

```
CODE: -
<!DOCTYPE html>
<html lang="en">
<head>
                 <meta charset="UTF-8">
                 <meta name="viewport" content="width=device-width,</pre>
initial-scale=1.0">
                 <title>SORTING OF ARRAY</title>
<?php
                $result = " ";
                $array = array();
                 if (isset($ POST['SUB'])) {
                                 \frac{10}{30}, \frac{1
100);
                                 sort($array);
                                 $result = implode(", ", $array);
                 }
 >
</head>
<body>
<form action = "" method = "POST">
                 <div class="container">
                 <label for="org">ORIGINAL ARRAY</label>
                <textarea name = "org"><?php echo "10, 30, 20, 50, 40,
70, 60, 90, 80, 100";?></textarea>
                <button type="submit" name="SUB">SUBMIT</button>
                 </div>
                <div class="container">
                 <label for = "result">RESULTANT ARRAY</label>
                 <textarea name = "result"><?php echo
$result;?></textarea>
                 </div>
</form>
</body>
</html>
```

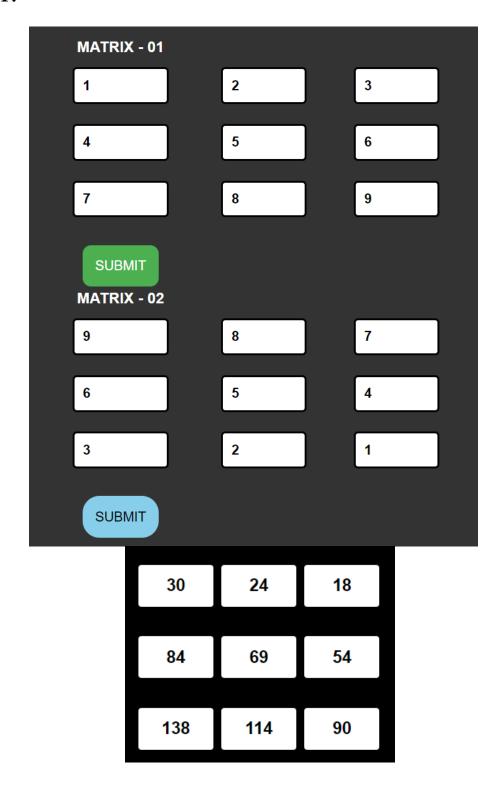


Aim: - C] Write a script to perform 3 x 3 matrix Multiplication.

```
CODE: -
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width,</pre>
initial-scale=1.0">
    <title>3 X 3 MATRIX MULTIPLICATION</title>
 <?php
        $res = " ";
        if (isset($_POST['SUB1'])) {
            $arr1 = $_POST['arr1'];
            $arr2 = $_POST['arr2'];
            $result = array();
            for (\$i = 0; \$i <= 2; \$i++) {
                for (\$j = 0; \$j <= 2; \$j++) {
                    result[i][j] = 0;
                    for (\$k = 0; \$k \le 2; \$k++) {
                        $result[$i][$j] += $arr1[$i][$k] *
$arr2[$k][$j];
                    }
                }
            }
            echo "";
            for (\$i = 0; \$i <= 2; \$i++) {
                echo "";
                for (\$j = 0; \$j \leftarrow 2; \$j++) {
                    echo "<input type='text' value='"
. $result[$i][$j] . "' readonly>";
                echo "";
            echo "";
            $res = json encode($result);
        }
    ?>
</head>
<body>
    <form action="" method="POST">
```

```
<div class="container">
          MATRIX - 01
             >
                 <input type="text"
name="arr1[0][0]" placeholder="10" required>
                 <input type="text"
name="arr1[0][1]" placeholder="20" required>
                 <input type="text"
name="arr1[0][2]" placeholder="30" required>
             <tinput type="text"
name="arr1[1][0]" placeholder="10" required>
                 <input type="text"
name="arr1[1][1]" placeholder="20" required>
                 <input type="text"
name="arr1[1][2]" placeholder="30" required>
             <input type="text"
name="arr1[2][0]" placeholder="10" required>
                 <input type="text"
name="arr1[2][1]" placeholder="20" required>
                 <input type="text"
name="arr1[2][2]" placeholder="30" required>
             <br>
                    <button type="submit"</pre>
name="SUB1">SUBMIT</button>
                 MATRIX - 02
                 <input type="text"
name="arr2[0][0]" placeholder="10" required>
                 <input type="text"
name="arr2[0][1]" placeholder="20" required>
```

```
<input type="text"
name="arr2[0][2]" placeholder="30" required>
             <input type="text"
name="arr2[1][0]" placeholder="10" required>
                 <input type="text"
name="arr2[1][1]" placeholder="20" required>
                 <input type="text"
name="arr2[1][2]" placeholder="30" required>
             <input type="text"
name="arr2[2][0]" placeholder="10" required>
                 <input type="text"
name="arr2[2][1]" placeholder="20" required>
                 <input type="text"
name="arr2[2][2]" placeholder="30" required>
             <br>
                    <button type="submit"</pre>
name="SUB">SUBMIT</button>
                 </div>
   </form>
</body>
</html>
```



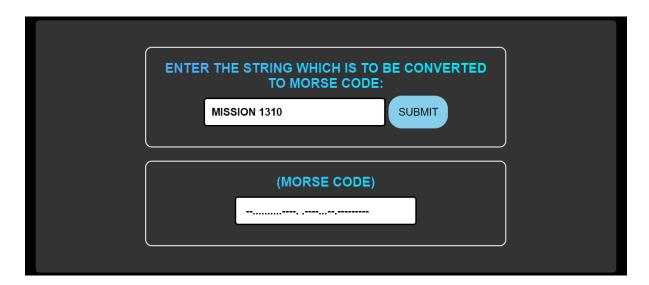
Aim: - D] Write a script to encode a given message into equivalent Morse code.

```
CODE: -
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width,</pre>
initial-scale=1.0">
    <title>MORSE CODE GENERATOR</title>
<?php
    $series = " ";
    if (isset($ POST['submit']))
    {
         $string = $ POST["string"];
         $string main = strtolower($string);
         array1 = array(
              "a"=>".-", "b"=>"-...", "c"=>"-.-.", "d"=>"-
..", "e"=>".", "f"=>"..-.",

"g"=>"--.", "h"=>"...", "i"=>"..", "j"=>".---
", "k"=>"--", "l"=>".-.",

"m"=>"--", "n"=>"--", "o"=>"---", "p"=>".--.",
"q"=>"---", "r"=>".--", "u"=>".--", "v"=>"..-",
"w"=>".--", "x"=>"-..-", "z"=>"--..", "0"=>"----
","1"=>".---", "2"=>"..--", "3"=>"...--"
"4"=>"....", "5"=>"....", "6"=>"-....", "7"=>"--...", "9"=>"---..",
             "."=>".-.-",","=>"--..-","?"=>"..--
..","/"=>"-..-."," "=>" ");
  for($i=0;$i<strlen($string main);$i++){</pre>
       foreach($array1 as $letter => $code)
           {
                if($letter == $string main[$i])
                       $series .= "$code";
                  }
           }
```

```
}
>
</head>
<body>
<form action = "" method = "POST">
<div class="container">
    <label for = "string">ENTER THE STRING WHICH IS TO BE
CONVERTED TO MORSE CODE:</label>
    <input type = "text" name = "string" placeholder =</pre>
"MISSION AI1" required>
    <button type="submit" name="submit">SUBMIT</button>
</div>
<div class="container">
    <label for = "res">(MORSE CODE)</label>
    <input type = "text" value = "<?php echo $series?>"
placeholder = "RESULT" readonly>
</div>
</form>
</body>
</html>
```

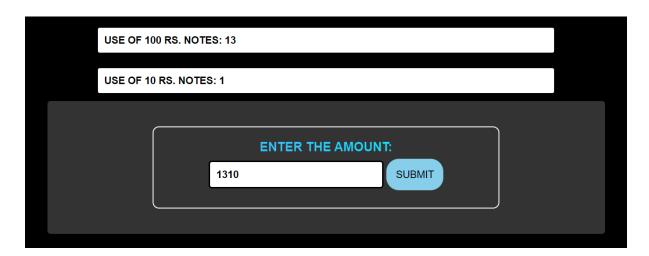


PRACTICAL - 06

Aim: - A] Consider a currency system in which there are notes of 7 denominations, namely Rs. 1, Rs. 2, Rs. 5, Rs. 10, Rs. 20, Rs. 50 and Rs. 100. Write a function that computes the smallest number of notes that will combine for a given amount of money.

```
CODE: -
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width,</pre>
initial-scale=1.0">
    <title>NOTES CALCULATOR</title>
 <?php
    $ans = " ";
    if (isset($_POST['submit'])){
        $amt = $ POST['amt'];
        function countnotes($amt){
            var = 1:
            while ($var != 0){
                if ($amt >= 100){
                    temp = 100;
                }else if ($amt >= 50){
                    temp = 50;
                }else if ($amt >= 20){
                    temp = 20;
                }else if ($amt >= 10){
                    temp = 10;
                }else if ($amt >= 5){
                    temp = 5;
                }else if ($amt >= 2){
                    temp = 2;
                }else if ($amt >= 1){
                    temp = 1;
                } else{
                    $ans .= $amt;
                }
                $amount = $amt / $temp;
                $notes = floor(floatval($amount));
```

```
echo "<input type='text' name='res' value='USE OF $temp
RS. NOTES: $notes' readonly>";
   $amt = fmod($amt , $temp);
   if (\$amt == 0){
         var = 0;}}
   countnotes($amt);}
    ?>
</head>
<body>
<form action="" method="POST">
    <div class="container">
        <label for="amt">ENTER THE AMOUNT:</label>
        <input type="text" name="amt" placeholder="1310"</pre>
required>
        <button type="submit"</pre>
name="submit">SUBMIT</button>
    </div>
</form>
</body>
</html>
```

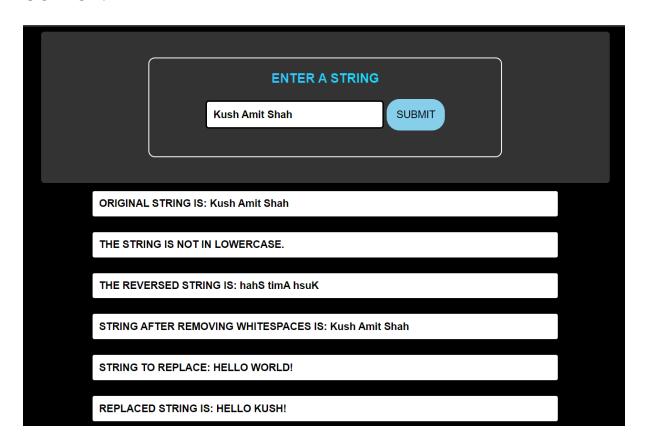


Aim: - B] Write scripts using string functions:

- a. to check if the given string is lowercase or not.
- b. to reverse the given string.
- c. to remove white spaces from the given string.
- d. to replace the given word from the given string.

```
CODE: -
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width,</pre>
initial-scale=1.0">
    <title>STRING FUNCTIONS</title>
</head>
<body>
<form action = "" method = "POST">
    <div class="container">
        <label for = "string">ENTER A STRING</label>
        <input type = "text" name = "string" placeholder =</pre>
" EG: KUSH SHAH" required>
        <button type="submit" name="SUB">SUBMIT</button>
    </div>
</form>
</body>
<?php
    $string_low = " ";
    $string_rev = " ";
    $string_trimmed = " ";
    $string_before = "HELLO WORLD!";
    $string after = " ";
    if (isset($ POST['string'])) {
        $string = $_POST['string'];
        $string low = strtolower($string);
        $string rev = strrev($string);
        $string trimmed = trim($string);
        $string after = str replace("WORLD" , "KUSH" ,
"HELLO WORLD!");
        echo "<input type = 'text' name = 'org' value =
'ORIGINAL STRING IS: $string' readonly>";
        if($string == $string low){
```

```
echo "<input type = 'text' name = 'lower'</pre>
value = 'THE STRING IS IN LOWERCASE.' readonly>";
        }else{
            echo "<input type = 'text' name = 'lower_not'</pre>
value = 'THE STRING IS NOT IN LOWERCASE.' readonly>";
        echo "<input type = 'text' name = 'reversed' value
= 'THE REVERSED STRING IS: $string_rev' readonly>";
        echo "<input type = 'text' name = 'trimmed' value
= 'STRING AFTER REMOVING WHITESPACES IS: $string_trimmed'
readonly>";
        echo "<input type = 'text' name = 'before' value =
'STRING TO REPLACE: $string_before' readonly>";
        echo "<input type = 'text' name = 'after' value =
'REPLACED STRING IS: $string after' readonly>";
    }
> 
</html>
```



Aim: - C] Write scripts using math functions:

- a. to generate a random number between the given range.
- b. to display the binary, octal and hexadecimal of a given decimal number.
- c. to display the sin, cos and tan of the given angle.

```
CODE: -
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width,</pre>
initial-scale=1.0">
    <title>MATH FUNCTIONS</title>
</head>
<body>
<form action = "" method = "POST">
    <label for = "n1">ENTER FIRST NUMBER</label>
        <input type = "text" name = "n1" placeholder =</pre>
"START RANGE" required>
    <label for = "n2">ENTER SECOND NUMBER</label>
        <input type = "text" name = "n2" placeholder =</pre>
"END RANGE" required>
    <label for = "num">ENTER A NUMBER</label>
        <input type = "text" name = "num" placeholder =</pre>
"DECIMAL NUMBER TO CONVERT" required>
    <label for = "angle">ENTER AN ANGLE</label>
        <input type = "text" name = "angle" placeholder =</pre>
"EG: 80" required>
    <br>
    <button type="submit" name="SUB">SUBMIT</button>
</form>
</body>
<?php
        if (isset($ POST['SUB'])) {
            $num1 = $ POST['n1'];$num2 = $ POST['n2'];$num
= $ POST['num'];
            $angle = $ POST['angle'];
            $random num = rand($num1, $num2);
            echo "<input type = 'text' name = 'random'
value = 'RANDOM NUMBER GENERATED IS: $random num'
readonly>";
```

```
$num bin = decbin($num); $num oct =
decoct($num); $num hex = dechex($num);
            echo "<input type = 'text' name = 'decbin'
value = 'BINARY VALUE OF $num IS: $num bin' readonly>";
            echo "<input type = 'text' name = 'decoct'
value = 'OCTAL VALUE OF $num IS: $num_oct' readonly>";
            echo "<input type = 'text' name = 'dechex'
value = 'HEXADECIMAL VALUE OF $num IS: $num hex'
readonly>";
            $angle sin = sin($angle); $angle cos =
cos($angle); $angle tan = tan($angle);
            echo "<input type = 'text' name = 'sin' value
= 'SINE VALUE OF $angle IS: $angle_sin' readonly>";
            echo "<input type = 'text' name = 'cos' value
= 'OCTAL VALUE OF $angle IS: $angle cos' readonly>";
            echo "<input type = 'text' name = 'tan' value
= 'HEXADECIMAL VALUE OF $angle IS: $angle_tan' readonly>";
        }
?>
</html>
```

ENTER FIRST NUMBER	
10	
ENTER SECOND NUMBER	
20	
ENTER A NUMBER	
1310	
ENTER AN ANGLE	
45	
SUBMIT	

RANDOM NUMBER GENERATED IS: 16

BINARY VALUE OF 1310 IS: 10100011110

OCTAL VALUE OF 1310 IS: 2436

HEXADECIMAL VALUE OF 1310 IS: 51e

SINE VALUE OF 45 IS: 0.85090352453412

OCTAL VALUE OF 45 IS: 0.52532198881773

HEXADECIMAL VALUE OF 45 IS: 1.6197751905439

Aim: - D] Write a script to display the current date and time in different formats.

```
CODE: -
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width,</pre>
initial-scale=1.0">
    <title>DATE FUNCTIONS</title>
</head>
<body>
<div class="container">
        <h2>DATE TIME FUNCTIONS</h2>
</div>
<?php
    $time = new DateTime();
    $format 1 = $time->format('Y-m-d H:i:s');
    $format 2 = $time->format('d-m-y');
    $format 3 = $time->format('1, F j, Y g:i A');
    $format 4 = $time->format('Y-m-d');
    $format 5 = $time->format('d-D-M-y');
    echo "<input type = 'text' value = 'DEFAULT FORMAT:
$format_1' readonly>";
    echo "<input type = 'text' value = 'CUSTOM FORMAT 1:
$format_2' readonly>";
    echo "<input type = 'text' value = 'CUSTOM FORMAT 2:
$format 3' readonly>";
    echo "<input type = 'text' value = 'CUSTOM FORMAT 3:
$format 4' readonly>";
    echo "<input type = 'text' value = 'CUSTOM FORMAT 4:
$format 5' readonly>";
?>
</body>
</html>
```

DATE TIME FUNCTIONS DEFAULT FORMAT: 2024-03-21 15:25:17 CUSTOM FORMAT 1: 21-03-24 CUSTOM FORMAT 2: Thursday, March 21, 2024 3:25 PM CUSTOM FORMAT 3: 2024-03-21 CUSTOM FORMAT 4: 21-Thu-Mar-24

PRACTICAL - 07

Aim: - A] Write a script to:

- a. Define a class with constructor and destructor.
- b. Create an object of a class and access its public properties and methods.

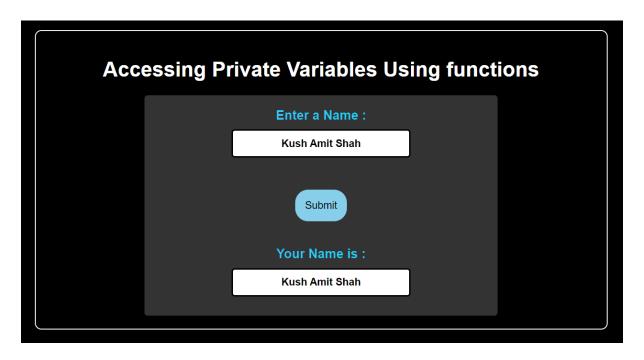
```
CODE: -
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width,</pre>
initial-scale=1.0">
    <title>CONSTRUCTOR AND DESTRUCTOR</title>
</head>
<body>
<div class="container">
    <?php
        class demo{
            function add(){
                num1 = 10;
                num2 = 20;
                sans = snum1 + snum2;
                echo "<input type = 'text' value =
'ADDITION OF $num1 AND $num2 IS: $ans' readonly>";
            }
            function __construct(){
                echo "<input type = 'text' value =
'CONSTRUCTOR HERE!!!' readonly>";
            function __destruct(){
                echo "<input type = 'text' value =
'DESTRUCTOR HERE!!!' readonly>";
            }
        $ob = new demo();
        $ob->add();
    >
</div>
</body>
</html>
```



Aim: - B] Write a script that uses the set attribute and get attribute methods to access a class's private attributes of a class.

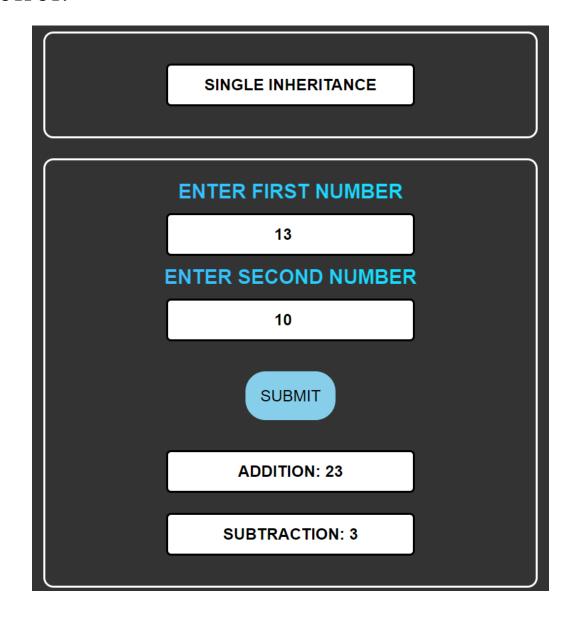
```
CODE: -
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width,</pre>
initial-scale=1.0">
    <title>SET AND GET ATTRIBUTES</title>
</head>
<body>
    <?php
        if ($_SERVER["REQUEST_METHOD"] == "POST") {
            class privateattribute{
                private $user;
                function setUser($user){
                     $this->user = $user;
                function getUser(){
                     echo $this->user;
                 }
            $use = new privateattribute();
            $user = $_POST["userName"];
            $use->setUser($user);
        }
    5>
<div class="container">
    <h1>Accessing Private Variables Using functions</h1>
    <form action="" method="post">
        <div class="form-group">
            <label for="ans">Enter a Name :</label>
            <input type="text" name="userName"</pre>
required><br><br>
            <button type="submit">Submit</button><br><br>
            <label for="ans">Your Name is :</label>
            <input type="text" name="displayUser"</pre>
value="<?php $use->getUser(); ?>" readonly>
        </div>
    </form>
```

</body>



Aim: - C] Write a script to demonstrate single inheritance.

```
CODE: -
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width,</pre>
initial-scale=1.0">
    <title>SINGLE INHERITANCE</title>
</head>
<body>
<form action = "" method = "POST">
<div class="container">
    <input type = "text" name = "msg" value = "SINGLE</pre>
INHERITANCE" readonly></div>
<div class="container">
    <label for = "num1">ENTER FIRST NUMBER</label>
        <input type = "number" name = "num1" required>
    <label for = "num2">ENTER SECOND NUMBER</label>
        <input type = "number" name = "num2" required><br>
    <button type = "submit" name =
"submit">SUBMIT</button><br>
    <?php
        if(isset($_POST['submit'])){
            class base{
                public $num1;
                public $num2;
                function __construct($num1, $num2){
                    $this->num1 = $num1;
                    $this->num2 = $num2;
                function add(){
                    $ans1 = $this->num1 + $this->num2;
                    echo "ADDITION: " . $ans1;
                }
            class child extends base{
                function sub(){
                    $ans2 = $this->num1 - $this->num2;
                    echo "SUBTRACTION: " . $ans2;}}
```



Aim: - D] Write a script to demonstrate multiple inheritance.

```
CODE: -
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width,</pre>
initial-scale=1.0">
    <title>MULTIPLE INHERITANCE</title>
<body>
    <?php
        if ($_SERVER["REQUEST_METHOD"] == "POST") {
            interface A{
                function setUser($user);
            interface B{
                function getUser();
            class Userinfo implements A,B{
                public $user;
                function setUser($user){
                     $this->user = $user;
                function getUser(){
                     echo $this->user;
                 }
            $use = new Userinfo();
            $user = $_POST["userName"];
            $use->setUser($user);
        }
    ?>
<div class="container">
        <h1>Multiple Inheritance</h1>
        <form action="#" method="post">
            <div class="form-group">
                <label for="ans">Enter a Name :</label>
                <input type="text" name="userName"</pre>
required><br><br>
                 <button
type="submit">Submit</button><br><br>
```

