

PART B- JAVA SCRIPT & PHP
JAVA SCRIPT

1. Write a JavaScript program to check whether a given number is perfect, abundant or deficient. Use alert box to display the output.

```
<html><body>
<script type="text/javascript">
    var num;
    var sum=0;
    num=prompt("Please enter a number","number");
    for (var i = 1; i < num; i++)
    {
        if (num % i == 0)
            sum = sum + i;
    }
    if( sum == num )
        alert("Perfect Number");
    else if(sum > num)
        alert("Abundant Number");
    else
        alert("Deficient Number");
</script>
</body></html>
```

2. Write a JavaScript program to check whether the given sides can form a triangle. If yes, find the type (isosceles, equilateral and scalene) and area of the triangle. Use prompt dialogue box to accept the sides.

```
<!DOCTYPE html>
<html><body>
<script type="text/javascript">
function checkTriangle(x, y, z)
{
    if (x == y && y == z)
        document.write("Equilateral Triangle");

    else if (x == y || y == z || z == x)
        document.write("Isosceles Triangle");

    else
        document.write("Scalene Triangle");
}
var x= prompt("Enthe the first side", "side1");
var y= prompt("Enthe the second side", "side2");
var z= prompt("Enthe the third side", "side3");
checkTriangle(x, y, z);
</script>
</body></html>
```

3. Design a form that accepts two integers. Provide 4 buttons for Add, Subtract, Multiply, Divide. Add JavaScript program to add, subtract, multiply and divide the given numbers when these buttons are clicked. Use output element to display the results.

```
<html> <body>
<script type="text/javascript">
var num1=prompt("Enter the First number ","number1");
var num2=prompt("Enter the Second number ","number2");
function sum(a,b)
{
    var result;
    result=parseInt(a)+parseInt(b);
    document.write("<br>Sum is ", result);
}
function dif(a,b)
{
    var result;
    result=a-b;
    document.write("<br>Diference is ", result);
}
function mul(a,b)
{
    var result;
    result=a*b;
    document.write("<br>Multiplication is ", result);
}
function div(a,b)
{
    var result;
    result=a/b;
    document.write("<br>Division is ", result);
}
sum(num1,num2);
dif(num1,num2);
mul(num1,num2);
div(num1,num2);
</script>
</body> </html>
```

4. Write a JavaScript program to store different colors in an array and change the background color of the page using this array element

```
<!DOCTYPE html>
<html><body>
<center>
<script type="text/javascript">
function myArray(n)
{
var backcolor=["#00f00","#ff0000","#0000ff","#cce"];
document.bgColor=backcolor[n];
```

```

}
</script>
<a href="#" onmouseover="myArray(1)">Red</a>
<a href="#" onmouseover="myArray(2)">Blue</a>
<a href="#" onmouseover="myArray(4)">Green</a>
<a href="#" onmouseover="myArray(3)">Ash</a>
<h1>Changing background color</h1>
</center>
</body></html>

```

5. Write a JavaScript program to create clock with a timing event.

```

<!DOCTYPE html>
<html><body>
<p>A script on this page starts this clock:</p>
<p id="demo"></p>
<script type="text/javascript">
var myVar = setInterval(myTimer, 1000);
function myTimer()
{
var d = new Date();
document.getElementById("demo").innerHTML = d.toLocaleTimeString();
}
</script>
</body></html>

```

6. Write a JavaScript Program to validate email based on the following condition

- Mail id must contain the @ and . character
- There must be at least one character before and after the @.
- There must be at least two characters after . (dot).

```

<!DOCTYPE html>
<html>
<head>
<script type="text/javascript">
function text_validate()
{
var x = document.forms["myForm"]["fname"].value;
if (x == null || x == "")
{
alert("Name must be filled out");
return false;
}
}
function email_validate()
{
var x = document.forms["myForm"]["email"].value;
var atpos = x.indexOf("@");
var dotpos = x.lastIndexOf(".");
if (atpos<1 || dotpos<atpos+2 || dotpos+2>=x.length)

```

```

        {
            alert("Not a valid e-mail address");
            return false;
        }
    }
</script>
</head><body>
<form name="myForm" action=""
onsubmit="return email_validate(),text_validate()" method="POST">
Name: <input type="text" name="fname"><br><br>
Email: <input type="text" name="email"><br><br>
<input type="submit" value="Submit">
</form>
</body> </html>

```

```

<?php
if($_POST)
{
    echo $_POST["fname"];
    echo "Your Email ID is ";
    echo $_POST["email"];
}
?>

```

7. Write a JavaScript program for Password validation based on the following condition

- Password and confirm password must be same
- Length of password must be greater than 8 characters

```

<html><body>
<h1>Password Validation</h1>
Password: <input type="text" id="pass"><br />
Confirm Password: <input type="password" id="confirm"><br />
<input type="submit" onClick="verify()">
<p id="txt"></p>
<script>
function verify()
{
    document.getElementById("txt").innerHTML = "";
    if (document.getElementById("pass").value != document.getElementById("confirm").value)
        document.getElementById("txt").innerHTML += "Password and confirm password
must be same.";
    if (document.getElementById("pass").value.length < 8)
        document.getElementById("txt").innerHTML += "<br/>Password must be greater
than 8 characters.";
    document.write("Password is Validated Successfully");
}
</script>
</body></html>

```

8. Write a JavaScript Program to create an Array and read values using Prompt popup box and display the sum of elements in an Alert Box

```
<html><body>
<script type="text/javascript">
arr=[];
var num=prompt("Enter the number of elements in the array ","number");
for(var i=0;i<num;i++)
    arr.push(prompt("Enter the array element "+(i+1)));
var s=0;
for(i=0;i<num;i++)
    s=s+parseInt(arr[i]);
alert("The complete array is: " + arr.join(", "));
alert("Sum of array elements: "+s);
</script>
</body> </html>
```

9. Change the text colour and back colour of a TextBox using onfocus and onBlur event

```
<html>
<body>
Enter the string
<input type="text" id="txt" onfocus="txt_color()" onblur="txt_back_color()">
<input type="button" value="showing">
<script type="text/javascript">
function txt_color()
{
    document.getElementById("txt").style.color="#ff0000";
    document.getElementById("txt").style.background="#0000ff";
}
function txt_back_color()
{
    document.getElementById("txt").style.color="#00ff00";
    document.getElementById("txt").style.background="#ff0000";
}
</script>
</body> </html>
```

10. Write a JavaScript program to display Capital of a country using onchange event. The country is selected from a select box and capital is displayed on a TextBox

```
<html>
<body>
Select the state from the list<br>
<select id="mySelect" onChange="display()">
    <option value="Trivandrum"> Kerala</option>
    <option value="Chennai"> Tamil nadu</option>
    <option value="Bangluru"> Karnadaka</option>
    <option value="Panaji"> Goa</option>
    <option value="Patna"> Bihar</option>
```

```

        <option value="Bhopal"> Madhya Pradesh</option>
        <option value="Imphal"> Manipur</option>
        <option value="Shillong"> Meghalaya</option>
        <option value="Chandigarh"> Hariyana</option>
    </select><br><br>
    <input type="text" id="txt">
    <script type="text/javascript">
    function display()
    {
        var x = document.getElementById("mySelect").value;
        document.getElementById("txt").value=x;
    }
    </script>
</body> </html>

```

11. Write a JavaScript program to find 1st January be a Sunday between a range of years.

```

<!DOCTYPE html>
<html><body>
<script type="text/javascript">
function firstSunday ()
{
    for (var year = 2014; year <= 2050; year++)
    {
        var d = new Date(year, 0, 1);
        if (d.getDay() === 0)
            document.write('<br>The first day of ' + year + ' is a Sunday');
    }
}
firstSunday();
</script>
</body></html>

```

PHP

12. Create a PHP program to display the bio data of a person by reading the personal details using an HTML page.

```

<html><body>
<form action="" method="POST">
<H1><center>BIO-DATA</center></h1>
Name:<input type="text" name="name1"><br>
Address: <textarea name="address1"> </textarea><br>
Age: <input type="text" name="age1"><br>
Mobile: <input type="text" name="mobile1"><br>
Email: <input type="text" name="email1"><br>
Qualification:<input type="text" name="qualification1"><br>
<input type="submit" value="Display" ><br>

```

```
</form>
</body></html>
```

```
<?php
if($_POST)
{
    echo "<h2><center>BIO-DATA</center></h2>";
    echo "Name: ".$_POST["name1"]."<br>";
    echo "Address: ".$_POST["address1"]."<br>";
    echo "Age: ".$_POST["age1"]."<br>";
    echo "Mobile ".$_POST["mobile1"]."<br>";
    echo "Email ".$_POST["email1"]."<br>";
    echo "Qualification ".$_POST["qualification1"]."<br>";
}
?>
```

13. Write a PHP function to reverse a string

```
<html><body>
<form action="" method="POST">
Enter any String<input type="text" name="str"><br>
<input type="submit" value="SHOW" ><br>
</form>
</body></html>
```

```
<?php
if($_POST)
{
    function rev_string($str)
    {
        $length=strlen($str);
        for ($i=($length-1);$i>=0;$i--)
            echo $str[$i];
    }
    $string=$_POST['str'];
    rev_string($string);
}
?>
```

14. Write a PHP program to check whether a given number is perfect, abundant or deficient.

```
<html><body>
<h2>Enter the Number</h2><br>
<form action="" method="post">
    <input type="text" name="number" />
    <input type="submit" />
</form>
</body></html>
```

```

<?php
if( $_POST )
{
    $no = $_POST[ 'number' ];
    $sum = 0;
    for ($i = 1; $i < $no; $i++)
    {
        if ($no % $i == 0)
            $sum = $sum + $i;
    }
    if( $sum == $no )
        echo "Perfect Number";
    else if($sum > $no)
        echo "Abundant Number";
    else
        echo "Deficient Number";
}
?>

```

15. Create a login page using database.

```

<html> <body>
<form action="" method="POST">
    Username:<input type="text" name="usr"><br><br>
    Password:<input type="password" name="pass"><br><br><br>
<input type="submit" value="login">
</form>
</body> </html>

```

```

<?php
if($_POST)
{
    $usr1=$_POST['usr'];
    $passwd=$_POST['pass'];
    $con=pg_connect("host=localhost dbname=college user=postgres password=gems");
    if($con)
    {
        echo "Successfully Connected";
        $qry="select username,password from login
        where username='$usr1' and password='$passwd'";
        $result=pg_query($con,$qry);
        $nos=pg_num_rows($result);
        if($nos)
            echo " <br> $usr1, You are Logged Successfully...";
        else
            echo "Login Denied";
    }
}
?>

```


16. Create a table student with fields roll no, name, mark, grade. Insert some records in the table. Write a PHP program to display the mark list of a student by accepting the register no of the student.

```

<html> <head> <title>Marklist</title>
</head> <body>
    <h3><center>Marksheet</center></h3>
    <form method="POST" action="">
        <label>Regno:</label><input type="text" name="txtreg"/><br><br><br>
        <input type="submit" value="show">
    </form>
</body> </html>

<?php
if($_POST)
{
    $rg=$_POST['txtreg'];
    $con =pg_connect("host=localhost dbname=college user=postgres password=gems");
    if($con)
        echo "Successfully Connected..";
    $qry="select * from student where rollno=$rg";
    $result=pg_query($con,$qry);
    $nos=pg_num_rows($result);
    while($row=pg_fetch_row($result))
    {
        echo "<br>\n";
        echo "rollno: $row[0] name: $row[1] mark: $row[2] grade: $row[3]";
    }
}
?>

```

17. Write a PHP application to generate the pay slip of an employee by accepting name, basic salary and designation. The net salary will be calculated based on the following conditions

Designation	Conveyance allowance	Extra allowance
Manager	1000	500
Supervisor	750	200
Clerk	500	100
Peon	250	

HRA – 25 %

Gross= basic + HRA + conveyance allowance + extra allowance

Income tax

Gross <=2000

2500 < gross <=4000 3%

4000< gross <=5000 5%

Gross >5000 8%
Net = gross – income tax

```
<html> <head>
<title>Payroll page</title><center><h2>Payroll statments</h2></center>
</head> <body>
<form action="" method="POST">
  <table border="0">
    <tr><td>Employee Name</td><td><input type="text" name="name"></td>
    </tr><tr><td>Designation</td>
    <td><select name="desig">
      <option >(Please Select)</option>
      <option >Manager</option>
      <option >Supervisor</option>
      <option >Clerk</option>
      <option >Peon</option>
    </select></td></tr>
    <tr>
    <td>Basic salary</td><td><input type="text" name="salary"></td></tr>
    <tr><td></td><td><input type="submit" value="submit"></td></tr></table>
  </form>
</body> </html>
```

```
<?php
if($_POST)
{
  $name=$_POST["name"];
  $designation=$_POST["desig"];
  $basic=$_POST["salary"];
  if(is_numeric($basic))
  {
    if($basic!=NULL)
    {
      switch($designation)
      {
        case "Manager":
          $hra=($basic*25)/100;
          $conv=1000;
          $extra=500;
          $gross=$hra+$conv+$extra+$basic;
          if($gross<=2000)
            $intax=$gross;
          elseif($gross>2000 && $gross<4000)
            $intax=($gross*3)/100;
          elseif($gross>4000 && $gross<5000)
            $intax=($gross*5)/100;
          elseif($gross>5000)
            $intax=($gross*8)/100;
```

```

$net=$gross-$intax;
echo "<b>Employee Name : </b>$ename<br>";
echo "<b>Designation : </b>$designation<br>";
echo "<b>Salary : </b>$net<br>";
break;
case "Supervisor":
$hra=($basic*25)/100;
$convc=750;
$extra=200;
$gross=$hra+$convc+$extra+$basic;
if($gross<=2000)
$intax=$gross;
elseif($gross>2000 && $gross<4000)
$intax=($gross*3)/100;
elseif($gross>4000 && $gross<5000)
$intax=($gross*5)/100;
elseif($gross>5000)
$intax=($gross*8)/100;
$net=$gross-$intax;
echo "<b>Employee Name : </b>$ename<br>";
echo "<b>Designation : </b>$designation<br>";
echo "<b>Salary : </b>$net<br>";
break;
case "Clerk":
$hra=($basic*25)/100;
$convc=500;
$extra=100;
$gross=$hra+$convc+$extra+$basic;
if($gross<=2000)
$intax=$gross;
elseif($gross>2000 && $gross<4000)
$intax=($gross*3)/100;
elseif($gross>4000 && $gross<5000)
$intax=($gross*5)/100;
elseif($gross>5000)
$intax=($gross*8)/100;
$net=$gross-$intax;
echo "<b>Employee Name : </b>$ename<br>";
echo "<b>Designation : </b>$designation<br>";
echo "<b>Salary : </b>$net<br>";
break;
case "Peon":
$hra=($basic*25)/100;
$convc=250;
$extra=0;
$gross=$hra+$convc+$extra+$basic;
if($gross<=2000)
$intax=$gross;

```

```

elseif($gross>2000 && $gross<4000)
    $intax=($gross*3)/100;
elseif($gross>4000 && $gross<5000)
    $intax=($gross*5)/100;
elseif($gross>5000)
    $intax=($gross*8)/100;
$net=$gross-$intax;
echo "<b>Employee Name : </b>$ename<br>";
echo "<b>Designation : </b>$designation<br>";
echo "<b>Salary : </b>$net<br>";
break;
default:
    echo("Invalid Designation! try again.....");
}
}
}
}
?>

```

18. PHP program to store current date-time in a cookie and display the Last visited date-time on the web page upon revisiting the same web page.

```

<html><body>
<?php
    $itm=60*60*24*60+time();
    setcookie('last_visit',date("G:i -m/d/y"),$itm);
    if(isset($_COOKIE['last_visit'])) {
        $visit=$_COOKIE['last_visit'];
        echo "Your last visit was- " . $visit;
    }
    else {
        echo "You have some state cookies!" ;
    }
?>
</body></html>

```

19. Create a table product with fields itemcode, itemname, unitprice. Write PHP program to insert 5 records into the table and display it in a table format.

```

<html> <head> <title>Product</title> </head> <body>
<h1><center>List of Products</center></h1>
    <form method="POST" action="">
        Item Code:<input type="text" name="icode"/><br><br><br>
        Item Name:<input type="text" name="iname"/><br><br><br>
        Unit Price:<input type="text" name="iprice"/><br><br><br>
    <input type="submit" value="Display">
</form>
</body> </html>

<?php

```

```

if($_POST)
{
    $no=$_POST['icode'];
    $name=$_POST['iname'];
    $price=$_POST['iprice'];
    $con=pg_connect("host=localhost dbname=college user=postgres password=gems");
    if($con)
    {
        echo "Successfully Connected.....";
        $qry="insert into product (itemcode,itemname,unitprice) values ($no,'$name',
$price)";
        $result=pg_query($con,$qry);
        $qry1="select * from product";
        $result1=pg_query($con,$qry1);
        echo "<table border=1>";
        echo "<tr><th>Item Code</th><th>Item Name</th><th>Unit Price</th></tr>";
        while ($row = pg_fetch_row($result1))
        {
            echo "<tr><td>$row[0]</td> <td>$row[1]</td> <td>$row[2]</td></tr>";
        }
        echo "</table>";
    }
}
?>

```

20. Create a table bank with the following fields accno, cust_name, balance. Insert some Records. Design HTML page to accept Account Number and amount using TextBoxes and type of transaction (Deposit or Withdrawal) using Radio Button. Write PHP program to update balance according to the transaction

```

<html> <head>
<title>BANK DATABASE</title><center><h2>ACCOUNT DETAILS</h2></center>
</head> <body>
<form action="" method="POST">
    <table border=0>
    <tr><td>Account Number</td><td><input type="text" name="acc"></td></tr>
    <tr><td>Amount</td><td><input type="text" name="amnt"></td></tr>
    <tr>
    <td rowspan=1>Transaction</td>
    <td><input type="radio" name="trans" value="deposit">Deposit<br>
    <input type="radio" name="trans" value="withdrawal">Withdrawal</td><br>
    </tr>
    <tr><td></td><td><input type="submit" value="submit"></td></tr></table>
</form>
</body> </html>

<?php
if($_POST)

```

```

{
    $acc1=$_POST["acc"];
    $amnt1=$_POST["amnt"];
    $trans1=$_POST["trans"];
    $con =pg_connect("host=localhost dbname=college user=postgres password=gems");
    if($con)
    {
        echo "Successfully Connected...";
        if($trans1=="deposit")
        {
            $qry="update bank SET balance = (select balance from bank where
accno=$acc1)+$amnt1 where accno=$acc1";
            $result=pg_query($con,$qry);
        }
        else
        {
            $qry="update bank SET balance = (select balance from bank where
accno=$acc1)-$amnt1 where accno=$acc1";
            $result=pg_query($con,$qry);
        }
        echo "Database Updated...";
    }
    else
        echo "Not Connected";
}
?>

```

21. Write an HTML page to display a list of fruits in a list box. Write php program to display the selected fruits in a webpage.

```

<html ><body >
<form action="" method="POST">
    Choose Your Favorite Fruit<br><br>
    <select name="fru">
        <option value=".....">(Please Select)
        <option value="Grape">Grape
        <option value="Banana">Banana
        <option value="Chicku">Chicku
        <option value="Apple">Apple
        <option value="Oreng">Oreng
        <option value="Pine Apple">Pine Apple
    </select><br><br>
    <input type="submit" value="SELECT">
</form>
</body></html>

<?php
if($_POST)
{

```

```

    echo "<h3> You have indicated that you like </h3>";
    echo $_POST["fru"];
}
?>

```

22. Write a PHP program to create an array and store 10 names in the array. Do the following operations.

- a. Display the contents using for each statement.
- b. Display the array in a sorted order.
- c. Display the array without the duplicate elements
- d. Remove the last element and display
- e. Display the array in reverse order
- f. Search an element in the given array.

```

<html> <body>
<h2>Array Operations</h2><br>
<form action="" method="POST">
<?php
    echo "<br><input type=radio name=arr value=dis>Display Array";
    echo "<br><input type=radio name=arr value=srt>Sorted Array";
    echo "<br><input type=radio name=arr value=usrt>Without Duplicate";
    echo "<br><input type=radio name=arr value=pop>Delete Last";
    echo "<br><input type=radio name=arr value=rev>Array Reverse";
    echo "<br><input type=radio name=arr value=sear>Array Search";
    echo "<br><input type=Submit>";
    $names = array("Raju", "Kiran", "Vani", "Basheer", "Kumar", "Jhon", "Shani", "Maaran",
"Kiran", "Sukumaran");
?>
</body> </html>

<?php
if($_POST)
{
    $val=$_POST['arr'];
    switch($val)
    {
        case "dis":
            foreach($names as $value)
                echo "<br>".$value;
            break;
        case "srt":
            sort($names);
            foreach($names as $value)
                echo "<br>".$value;
            break;
        case "usrt":
            $uarray=array_unique($names);
            foreach($uarray as $value)

```

```

        echo "<br>".$value;
        break;
    case "pop":
        array_pop($names);
        foreach($names as $value)
            echo "<br>".$value;
        break;
    case "rev":
        $revarr=array_reverse($names);
        foreach($revarr as $value)
            echo "<br>".$value;
        break;
    case "sear":
        echo "<br>".array_search("Jhon",$names,true);
        break;
    }
}
?>

```

23. Display Multiplication table using PHP

```

<!DOCTYPE html>
<html><body>
<h3> Multiplication Table</h3>
<form action="" method="POST">
Enter a Number
<input type="text" name="num">
<input type="submit">
</form>
</body></html>

<?php
if($_POST)
{
    $n=$_POST['num'];
    for ($i = 1; $i <= 15; $i++)
        echo $i." * ".$n." = ".$i*$n."<br>";
}
?>

```