Laboratory Record

of WT

Sheet No. 1

Experiment No. 1

Date 20/9/22

1. Write a PHP script to print prime numbers between range 1 - 50.

```
<?php
    $count=0;
    for($j=2; $i<50; $i++)
    {
        for($j=2; $j<$i; $j++)
        {
            if(($i%$j)==0)
            {
                $count++;
                break;
            }
        }
        if($count==0 && $i!=1)
            echo $i."\n";
        $count=0;
    }
?>
```

2. Write a PHP script to

a. Find the length of a string

```
<? php
    $my_str = 'welcome to Tutorial Republic';
    echo strlen($my_str);
?>
```

Output: 28.

b. Count no. of words in a string

```
<? php
    $my_str = 'The quick brown fox jumps over the lazy dog';
    echo str_word_count($my_str);
```

Output: 9

c. Reverse a string

```
<? php
    $my_str = 'You can do anything, but not everything';
    echo strrev($my_str);
?>
```

Output: gnihtyrevе ton tub, gnihtyna od nac uoY

d. Search for a specific string

```
<?php
    $my_str = 'if the facts do not fit the theory, change
                                    the facts';
    echo str_replace("facts", "truths", $my_str);
?>
```

Output: If the truths do not fit the theory, change the truths.

3. Write a PHP script to merge two arrays and sort them as numbers, in descending order.

```
<? php
    $a1 = array(1, 3, 15, 7, 5);
    $a2 = array(4, 3, 20, 1, 6);
    $num = array_merge ($a1, $a2);
    array_multisort ($num, SORT_DESC, SORT_NUMBER);
    print_r ($num);
?>
```

Output:

Array ([0] => 20 [1] => 15 [2] => 7 [3] => 6 [4] => 5
[5] => 4 [6] => 3 [7] => 3 [8] => 1 [9] => 1).

4. Write a PHP program to read data from one file and write into another ~~file~~ file.

Reading the data from one file and write into another file.

```
<?php
$myfile = fopen("webdic.text", "r");
if ($my_file == false)
{
  echo ("error in opening file");
    exit();
}
  echo fgets ($myfile);
  $myfile1 = fopen("new_file.txt", "w");
  if ($myfile1 == false)
  {
    echo ("Error in opening file");
      exit();
  }
  fwrite ($myfile1, $myfile);
  fclose ($myfile1);
  fclose ($myfile);
?>
```

5. Write a PHP program for creating a cookie.

```
<?php
  $cookie_name = "user1";
  $cookie_value = "John Doe";
  setcookie($cookie_name, $cookie_value, time() + (86400 * 30), "/");
?>
<html>
 <body>
 <?php
  if(!isset($_COOKIE[$cookie_name]))
  {
    echo "cookie named not set". $cookie_name;
  }
  else
  {
    echo" cookie is set". $cookie_name;
  }
  ?>
  </body>
  </html>
```

Output:

cookie named not set user 2

cookie named is set user 2.

6 Write a HTML program to demonstrate the three types of css.

program:

1) Inline css:

```
<!DOCTYPE html>
<html>
<body>
<h1 style = "color : blue ;" > A Blue Heading </h1>
<p style = " color: red; " > A red paragraph </p>
</body>
</html>
```

A Blue paragraph (blue)
A red paragraph (red)

(2) Internal

```
<html>
<head>
<style>
body { background_color: powder_blue; }
h1 { color : blue }
p {color : red}
</style>
</head>
<body>
<h1> This is heading</h1>
<p> This is paragraph </p>
</body>
</html>
```

This is heading (blue)
This is paragraph (red)

External:

```
<html>
<head>
<Link ref = "stylesheet" > href = "path" >
</head>
<body>
    <h1> This is heading </h1>
    <p> This is paragraph </p>
</body>
</html>
```

stylesheet.css

```
h1 {color: blue;}
p {color: red;}
```

This is heading (blue)
This is paragraph (red)

8. Write a program to demonstrate the html DOM.

```
<!DOCTYPE html>
<html>
<body>
<p id='demo'></p>
<script>
var xhttp = new XMLHttpRequest();
xhttp.onreadystatechange_function() {
if (this.readyState == 4 && this.status == 200)
    myFunction(this); }};
xhttp.open("GET", "books.xml", true);
xhttp.send();
function myFunction(xml)
{
    var xmlDOC = xml.responseXML;
    document.getElementById("demo").innerHTML =
    XMLDOC.getElementByTagName("title")[0].childNodes[0]
      nodeValue;}
</script></body></html>
```

O/P:

everyday Italian

• XML:

```
<book store>
<book category = "cookies">
<title lang = 'en'> everyday
  Italian </title>
<year> 2005 </year>
<price> 30.00 </price>
</book>
```

9. Write servlet program to read data from HTML form.

index.html

```
<form action = "servlet" method = "get">
Enter your name <input type = "text" name = "name" ><br>
<input type = "submit" value = "login"> </form>
```

Servlet.java

```
import javax.servlet.http.*;
import javax.servlet.*;
import java.io.*;
public class servlet extends HttpServlet {
public void doGet (HttpServletRequest req, HttpServletResponse res)
throws servletException, IOException
{
    res.setContentType("text/html");
    PrintWriter pw = res.getWriter();
    String name = req.getParameter("name");
    pw.println("Welcome "+name);
    pw.close();
}}
```

O/P:

Enter your name: Chandu

[login]

Welcome Chandu

```
PrintWriter pw = res.getWriter();
String name = req.getParameter("name");
pw.println("welcome" + name);
pw.close();
}}
```

10. Write a servlet program for reading and initialising parameters.

Servlet.java

```
import java.io.*;
import javax.servlet.*;
import javax.servlet.http.*;
public class servlet extends HttpServlet {
public void doGet(HttpServletRequest request, HttpServletResponse response)
throws ServletException, IOException {
response.setContentType("text/html");
PrintWriter out = response.getWriter();
ServletConfig config = getServletConfig();
String driver = config.getInitParameter("driver");
out.println("Driver is:" +driver);
out.close(); }}
```

Web.xml

```
<web-app>
<servlet>
<servlet-name>Servlet</servlet-name>
<servlet-class>Servlet</servlet-class>
<init-param>
<param-name>driver</param-name>
<param-value>sun.jdbc.jdbcOdbcDriver</param-value>
<init-param></servlet>
```

```
<servlet-mapping>
<servlet-name> DemoServlet </servlet-name>
<url-pattern> /servlet1 </url-pattern>
</servlet-mapping>
</web-app>
```

```
<servlet-name>Demo Servlet</servlet-name>
<url-pattern>/servlet1</url-pattern>
</servlet-mapping>
</web-app>
```

11. Write a servlet program to create a cookie.

Index.html

```
<form action="servlet" method="post">
Name:
<input type="text" name="username" /><br>
<input type="submit" value="go" /></form>
```

Servlet1.java

```
import java.io.*;
import javax.servlet.*;
import javax.servlet.http.*;
public class servlet1 Extends HttpServlet{
public void doPost(HttpServletRequest request, HttpServletResponse response)
{ try{ response.setContentType("text/html");
PrintWriter out = response.getWriter();
String n = request.getParameter("username");
out.print("Welcome"+n);
cookie ck = new cookie("uname", n);
response.addcookie(ck);
out.print("<form action="servlet2" method="post">");
out.print("<input type="submit" value="go">");
out.print("</form>"); out.close();}
catch(Exception e)
{ system.out.println(e);}}
```

12. Write a servlet program to print the message.

```
import javax.servlet.http.*;
import javax.servlet.*;
import java.io.*;

public class servlet extends Httpservlet
{
    public void doGet (HttpServlet.Request request, HttpServlet Responce res)
        throws ServletException, IOException
    {
        res.setContentType ("text/html");
        printWriter pw = res.getWriter();
        pw.println("<html><body>");
        pw.println("Welcome to Servlet");
        pw.println("</body></html>");
        pw.close();
    }
}
```

o/p: Welcome to Servlet.

13. Write a JSP program using scripting elements.

a) Write a JSP program to print the today date.

```
<%@ page import = "java.util.*" %>
<html>
<head>
<title> Learning JSP </title>
</head>
<body>
<%= new Date().toString() %>
</body>
</html>
```

b) Write a JSP program to demonstrate comments.

```
<html>
<head> <title> My First JSP page </title></head>
<%! int count = 0; %>
<body> <%-- Code to show page count --%> Page Count is
<%= ++count); %>
</body> </html>
```

c) Write a JSP program to demonstrate declaration element.

```
<html>
<head> <title> My First JSP page </title></head>
<%! int count = 0; %>
<body> Page count is :
<% out.println(++count); %>
</body> </html>
```

d) Write a JSP program to demonstrate expression element.

```
<%@ page language="java" contentType="text/html" %>
<%@ page import="java.util.*" %>
<html>
<head> <title> Learning JSP </title>
</head>
<body>
<%= new Date().toString() %>
</body>
</html>
```

e) Write a JSP program to read html form data ~~form.html~~

form.html:

```
<form action="Servlet" method="Get">
Enter your name <input type="text" name="name"><br>
<input type="submit" value="login">
</form>
```

name.jsp

```
<html>
<head> <title> My First JSP page </title> </head>
<body>
<% String name = request.getParameter("name");
out.println("Welcome "+name);
%>
</body> </html>
```

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