WEB LAB

```
1a.html
<html>
<form action="http://localhost/cgi-bin/1a.pl">
  <center>
  <input type=submit value=Show_Server_Info/>
</form>
</html>
<u>1a.pl</u>
#!C:\xampp\perl\bin\perl.exe
print "Content-Type: text/html;charset=iso-8859-1;\n\n";
#this is a here-document
print "<html>ENV VARIABLESValue";
foreach $i(sort keys %ENV)
print "$i$ENV{$i}";
print "</html>";
1b.html
<html>
<form action="http://localhost/cgi-bin/1b.pl">
<!-- input command name-->
<input type=text name=com>
<input type=submit value=submit />
</form>
</html>
<u>1b.pl</u>
#!"\xampp\perl\bin\perl.exe"
use CGI':standard';
print "Content-type:text/html\n\n";
$c=param('com');
system($c);
exit(0);
2a.html
<html>
<form action="http://localhost/cgi-bin/2a.pl">
<center>
<h2>Enter your name:</h2>
<input type=text name=name>
<input type=submit value=sumbit>
```

</center>

```
</form>
</html>
2a.pl
#!C:\xampp\perl\bin\perl.exe
use strict;
use warnings;
use CGI qw(:standard);
my $cmd=param('name');
my @greet=("Hello","Hi","Nice to meet you");
my $index=int rand scalar@greet;
print"Content-type: text/html;charset=iso-8859-1;\n\n";
print<<"here";
<html>
<center>
<h2>$cmd,$greet[$index]</h2>
</center>
</html>
here
2b.html
<html>
  <body>
     <form action="http://localhost/cgi-bin/2b.pl">
       <input type="submit" value="Show">
    </form>
  </body>
</html>
<u>2b.pl</u>
#!C:\xampp\perl\bin\perl.exe
use CGI':standard';
print "Content-type: text/html;charset=iso-8859-1;\n\n";
open(FILE,'<count.txt');
$count=<FILE>;
close(FILE);
$count++;
open(FILE,'>count.txt');
print FILE "$count";
print "This page has been viewed $count times";
3.html
<form action="http://localhost/cgi-bin/3.pl">
    <input type="submit" value="Check status">
  </center>
```

```
</form>
3.pl
#!C:\xampp\perl\bin\perl.exe
use CGI;
my $cgi=CGI->new;
my $cookie_name = 'webmaster_logged_in';
my $status=$cgi->cookie($cookie name);
print "Content-type:text/html;\n\n";
if($status){
  print "Logged in";
}else{
  print "Logged out";
($s,$m,$h)=localtime(time);
print "<br>";
if($h<12){
  print "Good Morning";
}else{
  print "Good Evening";
}
4.html
<form action="http://localhost/cgi-bin/4.pl">
  <center>
     <input type="submit" value="Display Time">
  </center>
</form>
4.pl
#!C:\xampp\perl\bin\perl.exe
use CGI":standard";
print "Refresh:1\n";
print "Content-type: text/html;\n\n";
($s,$m,$h)=localtime(time);
print br "The current server time is $h:$m:$s";
print br"in words, the time is-$h hours,$m minutes and $s seconds";
5. Html
<html>
<head>
  <title>Database Table Viewer</title>
</head>
<body>
  <h2>Enter Database and Table Name</h2>
  <form action="display.php" method="post">
    <label for="dbname">Database Name:</label>
```

```
<input type="text" id="dbname" name="dbname" required><br><br><
   <label for="tablename">Table Name:</label>
   <input type="text" id="tablename" name="tablename" required><br>
   <input type="submit" value="Display Table">
  </form>
</body>
</html>
5.php
<?php
$dbname = $_POST['dbname'];
$tablename = $_POST['tablename'];
$servername = "localhost";
$username = "root";
$password = "";
$conn = new mysqli($servername, $username, $password, $dbname);
if ($conn->connect error) {
 die("Connection failed: " . $conn->connect_error);
}
$sql = "SELECT * FROM $tablename";
$result = $conn->query($sql);
if ($result->num rows > 0) {
 echo "<h2>Contents of Table: $tablename</h2>";
 echo "";
 $columns = $result->fetch_fields();
 echo "";
 foreach ($columns as $column) {
   echo "" . $column->name . "";
 }
 echo "";
 while ($row = $result->fetch assoc()) {
   echo "";
   foreach ($row as $value) {
     echo "" . htmlspecialchars($value) . "";
   echo "";
 }
 echo "";
```

```
} else {
  echo "No data found in the table.";
$conn->close();
?>
6.html
<html>
<head>
  <title>Insert Data</title>
</head>
<body>
  <h2>Insert New Record</h2>
  <form action="insert.php" method="post">
    <label for="name">Name:</label>
    <input type="text" id="name" name="name" required><br><br>
    <label for="age">Age:</label>
    <input type="number" id="age" name="age" required><br><br>
    <input type="submit" value="Insert">
  </form>
</body>
</html>
6.php
<?php
$name = $ POST['name'];
$age = $ POST['age'];
$servername = "localhost";
$username = "root";
$password = "";
$dbname = "test";
$conn = new mysqli($servername, $username, $password, $dbname);
if ($conn->connect error) {
  die("Connection failed: " . $conn->connect_error);
}
$sql = "INSERT INTO info (name, age) VALUES ('$name', $age)";
if ($conn->query($sql) === TRUE) {
  echo "New record created successfully";
} else {
 echo "Error: " . $sql . "<br>" . $conn->error;
}
```

```
$conn->close();
?>
7.html
<html>
<head>
  <title>Database Table Viewer</title>
</head>
<body>
  <h2>Enter Database and Table Name</h2>
 <form action="query.php" method="post">
    <label for="dbname">Database Name:</label>
    <input type="text" id="dbname" name="dbname" required><br><br>
    <label for="query">Query:</label>
    <input type="text" id="query" name="query" required><br><br>
    <input type="submit" value="Display Table">
 </form>
</body>
</html>
7.php
<?php
$dbname = $_POST['dbname'];
$query=$ POST['query'];
$servername = "localhost";
$username = "root";
$password = "";
$conn = new mysqli($servername, $username, $password, $dbname);
if ($conn->connect_error) {
 die("Connection failed: ". $conn->connect error);
}
$result = $conn->query($query);
if ($result->num rows > 0) {
 echo "<h2>Contents of Table:</h2>";
 echo "";
 $columns = $result->fetch fields();
 echo "";
 foreach ($columns as $column) {
    echo "" . $column->name . "";
 }
```

```
echo "";
 while ($row = $result->fetch_assoc()) {
    echo "";
    foreach ($row as $value) {
      echo "" . htmlspecialchars($value) . "";
    echo "";
 echo "";
} else {
 echo "No data found in the table.";
}
$conn->close();
?>
8.html
<html>
<head>
 <title>Insert Data</title>
</head>
<body>
 <h2>Insert New Record</h2>
 <form action="insert book.php" method="post">
    <label for="id">Book id:</label>
    <input type="number" id="id" name="id" required><br><br>
    <label for="name">Book Name:</label>
    <input type="text" id="name" name="name" required><br><br>
    <label for="a name">Author Name:</label>
    <input type="text" id="a_name" name="a_name" required><br><br><
    <label for="edition">Edition:</label>
    <input type="number" id="edition" name="edition" required><br><br></pr>
    <label for="publisher">Publisher:</label>
<input type="text" id="publisher" name="publisher" required><br>
    <input type="submit" value="Insert">
 </form>
</body>
</html>
8.php
<?php
```

```
$id = $_POST['id'];
$name = $ POST['name'];
$author = $_POST['a_name'];
$edition = $_POST['edition'];
$publisher = $ POST['publisher'];
$servername = "localhost";
$username = "root";
$password = "";
$dbname = "test";
$conn = new mysqli($servername, $username, $password, $dbname);
if ($conn->connect_error) {
  die("Connection failed: " . $conn->connect_error);
}
$sql = "INSERT INTO books VALUES ($id, '$name', '$author', $edition, '$publisher')";
if ($conn->query($sql) === TRUE) {
  echo "New record created successfully";
  echo "Error: " . $sql . "<br>" . $conn->error;
$conn->close();
?>
9.html
<html>
<head>
  <title>Book Search</title>
</head>
<body>
  <h2>Search for a Book</h2>
  <form action="search.php" method="post">
    <label for="title">Book Title:</label>
    <input type="text" id="title" name="title" required><br><br>
    <input type="submit" value="Search">
  </form>
</body>
</html>
9.php
<?php
$title = $_POST['title'];
$servername = "localhost";
```

```
$username = "root";
$password = "";
$dbname = "library";
$conn = new mysqli($servername, $username, $password, $dbname);
if ($conn->connect error) {
 die("Connection failed: " . $conn->connect_error);
}
$sql = "SELECT * FROM books WHERE name LIKE '%$title%'";
$result = $conn->query($sql);
if ($result->num rows > 0) {
 echo "<h2>Search Results for '$title'</h2>";
 echo "";
 $columns = $result->fetch_fields();
 echo "";
 foreach ($columns as $column) {
    echo "" . $column->name . "";
 }
 echo "";
 while ($row = $result->fetch_assoc()) {
    echo "";
   foreach ($row as $value) {
      echo "" . htmlspecialchars($value) . "";
   echo "";
 }
 echo "";
} else {
 echo "<h2>No results found for '$title'</h2>";
$conn->close();
?>
```

10a. HTML:

```
<html>
<head>
<title>Greetings</title>
</head>
<body>
<form action="greet" method="post">
<h2>Enter your name:</h2>
```

Servlet:

```
Import java.io.PrintWriter;
import java.util.Random;
private static final String[] GREETINGS = {
          "Hello", "Welcome", "Hi there", "Greetings", "Hey", "Good to see
vou"
            };
protected void doGet(HttpServletRequest request, HttpServletResponse response)
chrows ServletException, IOException {
               // TODO Auto-generated method stub
               response.getWriter().append("Served at:
 ).append(request.getContextPath());
               String username = request.getParameter("name");
         Random random = new Random();
         String greeting = GREETINGS[random.nextInt(GREETINGS.length)];
         response.setContentType("text/html");
         PrintWriter out = response.getWriter();
        out.println("<html><body>");
out.println("<h2>" + greeting + ", " + username + "!</h2>");
out.println("</body></html>");
```

10b.HTML:

```
PrintWriter out = response.getWriter();
   out.println("<html>");
   out.println("<head><title>Background Color Changer</title></head>");
   out.println("<body style='background-color: " + color + ";'>");
   out.println("<h2>The background color has been set to: " + color +
"</h2>");
   out.println("<a href='bgcolour.html'>Choose another color</a>");
   out.println("</body></html>");
}
```

11.HTML:

```
import java.io.PrintWriter;
import java.time.LocalTime;
rotected void doGet(HttpServletRequest request, HttpServletResponse response)
throws ServletException, IOException {
             // TODO Auto-generated method stub
             response.getWriter().append("Served at:
').append(request.getContextPath());
             LocalTime currentTime = LocalTime.now();
       String greeting;
       if (currentTime.isBefore(LocalTime.NOON)) {
            greeting = "Good Morning!";
        } else if (currentTime.isBefore(LocalTime.of(17, 0))) {
           greeting = "Good Afternoon!";
        } else {
           greeting = "Good Evening!";
       response.setContentType("text/html");
       PrintWriter out = response.getWriter();
       out.println("<html>");
       out.println("<head><title>Greeting Message</title></head>");
       out.println("<body>");
       out.println("<h2>" + greeting + "</h2>");
       out.println("The current server time is: " + currentTime + "");
       out.println("<a href='greeting.html'>Back to Home</a>"); // Link to go
back to the HTML page
       out.println("</body></html>");
```

12.HTML:

```
import java.io.PrintWriter;
import javax.servlet.http.Cookie;
protected void doPost(HttpServletRequest request, HttpServletResponse response)
            // TODO Auto-generated method stub
            doGet(request, response);
            String username = request.getParameter("username");
       Cookie userCookie = new Cookie("username", username);
       userCookie.setMaxAge(60 * 60 * 24); // Set cookie to expire in 24 hours
       response.addCookie(userCookie);
       response.setContentType("text/html");
       PrintWriter out = response.getWriter();
       out.println("<html>");
       out.println("<head><title>Cookie Example</title></head>");
       out.println("<body>");
       out.println("<h2>Hello, " + username + "!</h2>");
       out.println("Your name has been saved in a cookie.");
       out.println("<h3>Current Cookies:</h3>");
       Cookie[] cookies = request.getCookies();
       if (cookies != null) {
           for (Cookie cookie : cookies) {
               out.println("" + cookie.getName() + " = " + cookie.getValue() +
");
       } else {
           out.println("No cookies found.");
       out.println("</body></html>");
```

13.HTML:

Servlet:

```
import java.util.Date;
import java.io.PrintWriter;
import javax.servlet.http.HttpSession;
protected void doPost(HttpServletRequest request, HttpServletResponse response)
chrows ServletException, IOException {
             // TODO Auto-generated method stub
             response.setContentType("text/html");
        HttpSession session = request.getSession(true);
        String sessionId = session.getId();
        long creationTime = session.getCreationTime();
        long lastAccessedTime = session.getLastAccessedTime();
        PrintWriter out = response.getWriter();
        out.println("<html><head><title>Session
Information</title></head><body>");
    out.println("<h2>Session Information</h2>");
        out.println("Session ID: " + sessionId + "");
        out.println("Creation Time: " + new Date(creationTime) + "");
        out.println("Last Accessed Time: " + new Date(lastAccessedTime) +
'");
        out.println("</body></html>");
        out.close();
```

14.HTML:

Servlet:

```
mport java.io.PrintWriter;
rotected void doPost(HttpServletRequest request, HttpServletResponse response)
throws ServletException, IOException {
             // TODO Auto-generated method stub
            doGet(request, response);
            response.setContentType("text/html");
       String requestMethod = request.getMethod();
       String requestURL = request.getRequestURL().toString();
       String protocol = request.getProtocol();
       String remoteAddr = request.getRemoteAddr();
       PrintWriter out = response.getWriter();
       out.println("<html><head><title>Server Information</title></head><body>");
out.println("<h2>Server Request Information</h2>");
       out.println("Request Method: " + requestMethod + "");
       out.println("Request URL: " + requestURL + "");
       out.println("Protocol: " + protocol + "");
       out.println("Remote Address: " + remoteAddr + "");
       out.println("</body></html>");
       out.close();
```

15.HTML:

```
String address = request.getParameter("address");

PrintWriter out = response.getWriter();
out.println("<html><head><title>User Information</title></head><body>");
out.println("<h2>User Information</h2>");
out.println("Username: " + username + "");
out.println("Address: " + address + "");
out.println("</body></html>");
out.close();
}
```