Program 1:

1. Develop and demonstrate a XHTML file that includes JavaScript script for the following problems:

a. Input: A number n obtained using prompt
   Output: The first n Fibonacci numbers

1(a).html –
<?xml version="1.0" encoding="UTF-8"?>

<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3.org/TR/xhtml1-transitional.dtd">

<html xmlns="http://www.w3.org/1999/xhtml">
  <head>
    <title> Second program </title>
    <SCRIPT LANGUAGE="JAVASCRIPT">
      var f0=0,f1=1,fn=0,i=1;
      n=prompt("Enter the number of terms u want",0);
      document.write("The first " + n + " fibonacci series are ");
      while(i<n)
      {
        document.write(f0 + " ");
        fn=f0+f1;
        f0=f1
        f1=fn;
        i++;
      }
    </SCRIPT>
  </head>

  </html>
Output -1

Explorer User Prompt

<table>
<thead>
<tr>
<th>Script Prompt: Enter the number of terms u want</th>
<th>OK</th>
<th>Cancel</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Second program - Windows Internet Explorer

The first 5 fibonacci series are 0 1 1 2 3
1b. Input: A number n obtained using prompt  
Output: A table of numbers from 1 to n and their squares  
using alert  
Program-1(b).html

```html
<?xml version="1.0" encoding="utf-8"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.1//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
<title>squares of number</title>
</head>
<body>
<h1>printing numbers; calculating their squares</h1>
<script type="text/javascript">
var n,i;
n=prompt("enter a number"," ");
if(n>0)
{
c="number/squares";
for(i=1;i<=n;i++)
c=(c+"\n"+i+"--"+i*i);
alert(c)
}
else
alert("enter a number greater than 1");
</script>
</body>
</html>
```
Output –1

printing numbers; calculating their squares
Program 2:
2a. Develop and demonstrate, using JavaScript script, a XHTML document that collects the USN (the valid format is: A digit from 1 to 4 followed by two upper-case characters followed by two digits followed by two upper-case characters followed by three digits; no embedded spaces allowed) of the user. Event handler must be included for the form element that collects this information to validate the input. Messages in the alert windows must be produced when errors are detected.

2(a).html
<html>
<head>
<title>Simple validation program</title>
<style type="text/css">
#a {MARGIN: 100px; WIDTH: 300px; BORDER: lime 2px solid; BACKGROUND: #f3f3f3}
</style>
<script language="JavaScript" type="text/javascript" src="valid1.js"></script></head>
<body>
<center>
<div id=a>
<form name=form1><br>
<b>USN : </b> &nbsp;&nbsp; <input name=usn> <br>
<pre> <input onclick=check_data() type=button value=Submit>
</pre>
</form>
</div>
</center>
</body>
</html>

Valid1.js
function check_data()
{
    var usn=form1.usn.value;
    if (usn=="")
    {
        alert("Please fill the USN field");
        form1.usn.focus();
    }
    else
    {
        var str= /[0-9][A-Z][A-Z][0-9][0-9][a-zA-Z][a-zA-Z][0-9][0-9]/;
        if (!usn.match(str))
            alert("Enter Valid USN, Ex- 1MJ07cs001");
        else
            document.write("Success");
    }
}
Output –
2b. Modify the above program to get the current semester also (restricted to be a number from 1 to 8)

2(b).html -
<html>
<head>
<title> Simple validation program </title>
<style type="text/css">
#a {MARGIN: 100px; WIDTH: 300px; BORDER: lime 2px solid; BACKGROUND: #f3f3f3}
</style>
<script language="JavaScript" type="text/javascript" src="valid2.js"></script>
</head><body><center>
<form name=form1>
<br>
<b>USN :&lt;/b&gt; &nbsp;&nbsp; <input name=usn> <br>
<b>SEM :&lt;/b&gt; &nbsp;&nbsp; <input name=sem> <br>
<pre> <input onclick=check_data() type=button value=Submit>
</pre>
</form>
</center>
</body>
</html>
valid2.js -
function check_data()
{
  var usn=form1.usn.value;
  var sem=form1.sem.value;
  if(usn=="")
  {
    alert("Please fill the USN field");
    form1.usn.focus();
  }
  else
  {
    var str=/[0-9][A-Z][A-Z][0-9][0-9][a-zA-Z][a-zA-Z][0-9][0-9][0-9]/;
    if (!usn.match(str))
      alert("Enter Valid USN, Ex- 1MJ07cs001");
    else
    {
      if(sem=""
        {
        alert("Please fill the sem field");
      }
form1.usn.focus();

```
} else {
    var str = /^[1-8]$; /
    if (!sem.match(str))
        alert("Enter Valid SEM (1 to 8)");
    else
        document.write("Success");
}
```

Output –
Program 3:
3. a) Develop and demonstrate, using Javascript script, a XHTML document that contains three short paragraphs of text, stacked on top of each other, with only enough of each showing so that the mouse cursor can be placed over some part of them. When the cursor is placed over the exposed part of any paragraph, it should rise to the top to become completely visible.
b) Modify the above document so that when a paragraph is moved from the top stacking position, it returns to its original position rather than to the bottom.

3(a) XHTML document that contains three short paragraphs of text, stacked on top of each other.

```html
<!DOCTYPE HTML PUBLIC "-//w3c//DTD XHTML 1.1//EN">
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
  <meta http-equiv="content-type" content="text/html; charset=UTF-8">
  <title>The Stacking order</title>
  <style type="text/css">
    .layer1Style {
      border: solid thick black;
      padding: 1em;
      width:300px;
      background-color:green;
      position:absolute;
      top:100px;
      left:200px;
      z-index:0;
    }
    .layer2Style {
      border: solid thick red;
      padding: 1em;
      width:300px;
      background-color:BLUE;
      position:absolute;
      top:120px;
      left:220px;
      z-index:0;
    }
  </style>
</head>
<body>
  <div class="layer1Style">Paragraph 1</div>
  <div class="layer2Style">Paragraph 2</div>
  <div class="layer1Style">Paragraph 3</div>
</body>
</html>
```
The lives of most inhabitants of Industrialized Countries, has well as some unindustrialized countries, have been changed forever by the advent of WWW.

The www may seem like magic, until you understand how it works. The Web is accessed through a browser.

Windows XP provides many ways for you to communicate with friends, co-workers, and I with the rest of the world.
3(a) **Output:** That shows the stacking of the paragraphs

Screen 1: The window shows the default stacking of the paragraphs.

---

**Program includes XHTML document to show the stacking of Paragraphs**
Program includes XHTML document to show the stacking of Paragraphs

In our XHTML document, we have started with the body element. In the following nested paragraph element, we have added two paragraphs to show the stacking of paragraphs in an XHTML document.
3(b) The Stacking of paragraphs and moved from the top stacking position, it returns to its original position.

<!DOCTYPE HTML PUBLIC "-//w3c//DTD XHTML 1.1//EN">
<html xmlns="http://www.w3.org/1999/xhtml"><head>
<meta http-equiv="content-type" content="text/html; charset=UTF-8">
<title>The Stacking order</title>
<style type="text/css">
.layer1Style{
border: solid thick black;
padding: 1em;
width:300px;
background-color:green;
position:absolute;
top:100px;
left:400px;
 z-index:1;
}
.layer2Style{
border: solid thick blue;
padding: 1em;
width:300px;
background-color:red;
position:absolute;
top:120px;
left:420px;
 z-index:2;
}
.layer3Style{
border: solid thick brown;
padding: 1em;
width:300px;
background-color:orange;
position:absolute;
top:140px;
left:440px;
 z-index:3;
}
</style>
<script type="text/javascript">
var topLayer="layer3";
var origPos;
function mover(toTop,pos)
{
var newTop=document.getElementById(toTop).style;
newTop.zIndex="10";
topLayer=document.getElementById(toTop).id;
origPos=pos;
}
function moveBack()
{
document.getElementById(topLayer).style.zIndex=origPos;
}
</script></head>
<body style="background-color:yellow">
The Stacking of paragraphs when moved from the top stacking position, it returns to its original position.

The lives of most inhabitants of Industrialized Countries, as well as some unindustrialized countries, have been changed forever by the advent of WWW.

The www may seem like magic, until you understand how it works. The Web is accessed through a browser.

Windows XP provides many ways for you to communicate with friends, co-workers, and with the rest of the world.

3(b) Output: The Stacking of paragraphs when moved from the top stacking position, it returns to its original position.

Screen 1: The window shows the default stacking of the paragraphs.
Screen 2: The window shows the paragraph when the mouse cursor is placed on it.

Screen 3:
Program 4.

4 a) Design an XML document to store information about a student in an Engineering College affiliated to VTU. The information must include USN, Name, Name of the College, Branch, Year of Joining, and email id. Make up sample data for 3 students.
Create a CSS style sheet and use it to display the document.

b) Create an XSLT style sheet for one student element of the above document and use it to create a display of that element.

4(a) XML document to store information about a student in an engineering college (using internal DTD to show the XML structure)

student.xml (with internal DTD)

```xml
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE student[
<!ELEMENT student_information (ad+)>
<!ELEMENT ad (usn,name,collegename,branch,year,email)>]
<?xml-stylesheet type="text/css" href="stu.css"?>
<student_information>
<h3>Student-Information</h3>
<h2>student 1</h2>
<ad><label>usn:<usn>4bd06499</usn></label></ad>
<ad><label>Name:<name>AAA</name></label></ad>
<ad><label>College Name:<collegename>BIET,DVg</collegename></label></ad>
<ad><label>Branch:<branch>CSE</branch></label></ad>
<ad><label>Year of Joining:<year>2007</year></label></ad>
<ad><label>Email-id:<email>aaa@gmail.com</email></label></ad>
```

Vijay Kumar Gowda
<h2>Student 2</h2>
<ad><label>usn:</label> 4bd06499</ad>
<ad><label>Name:</label> BBB</ad>
<ad><label>College Name:</label> BIET,DVG</ad>
<ad><label>Branch:</label> CSE</ad>
<ad><label>Year of Joining:</label> 2007</ad>
<ad><label>Email -id:</label> bbb@gmail.com</ad>

<h2>Student 3</h2>
<ad><label>usn:</label> 4bd06499</ad>
<ad><label>Name:</label> CCC</ad>
<ad><label>College Name:</label> BIET,DVG</ad>
<ad><label>Branch:</label> CSE</ad>
<ad><label>Year of Joining:</label> 2007</ad>
<ad><label>Email -id:</label> ccc@gmail.com</ad>

</student_information>

stu.css (External style sheet for student.xml file)

```css
ad { display:block; margin-top:15px; color:blue; font-size:13pt; }
usn { color:red; font-size:12pt; margin-left:15px; }
name { color:red; font-size:12pt; margin-left:15px; }
college { color:red; font-size:12pt; margin-left:15px; }
branch { color:red; font-size:12pt; margin-left:15px; }
year { color:red; font-size:12pt; margin-left:15px; }
email { color:red; font-size:12pt; margin-left:15px; }
h3 { color:red; font-size:18pt; }
h2 { display:block; color:black; font-size:18pt; }
```
4(a) Output: An XML file to display the details of three Students

```xml
<student_information>
  <student>
    <id>4b060499</id>
    <name>Vijay Kumar Gowda</name>
    <college name="BIET,Durg">
      <branch>CSE</branch>
      <year of joining>2007</year>
      <email id="aaa@gmail.com”/></college>
  </student>
  <student>
    <id>4b060499</id>
    <name>Vijay Kumar Gowda</name>
    <college name="BIET,Durg">
      <branch>CSE</branch>
      <year of joining>2007</year>
      <email id="aaa@gmail.com”/></college>
  </student>
  <student>
    <id>4b060499</id>
    <name>Vijay Kumar Gowda</name>
    <college name="BIET,Durg">
      <branch>CSE</branch>
      <year of joining>2007</year>
      <email id="aaa@gmail.com”/></college>
  </student>
</student_information>
```
4(b) An XSLT style sheet for one student element of the above document and use it to create a display of that element.

**xsl.xml**
```xml
<?xml version="1.0" encoding="utf-8"?>
<?xml-stylesheet type="text/xsl" href="xslstudent.xsl"?>
<student>
  <usn>3sl10cs015</usn>
  <name>bindu</name>
  <collegename>SLN</collegename>
  <branch>CSE</branch>
  <year>2010</year>
  <email>aaa@gmail.com</email>
</student>
```

**xslstudent.xsl**
```xml
<?xml version="1.0" encoding="utf-8"?>
<xsl:stylesheet version="1.0"
  xmlns:xsl="http://www.w3.org/1999/XSL/Transform">
<xsl:template match="/">
<html>
<body>
<h1>STUDENT-LIST</h1>
<xsl:for-each select="student">
  <h1>USN:<span style="font-size:18pt;color:red">"</span></h1>
  <h1>NAME:<xsl:value-of select="name"/></h1>
  <h1>COLLEGENAME:<xsl:value-of select="collegename"/></h1>
  <h1>BRANCH:<xsl:value-of select="branch"/></h1>
  <h1>YEAR:<xsl:value-of select="year"/></h1>
  <h1>EMAIL:<xsl:value-of select="email"/></h1>
</xsl:for-each>
</body>
</html>
</xsl:template>
</xsl:stylesheet>
```
4(b) Output: An XSLT style sheet to collect details of single student

Vijay Kumar Gowda

Student_USN

USN: 3d10c023
Name: Gowda
Branch: CSE
College: SLN college of engineering
Year of joining: 2000
Email: 41555@gmail.com
Program 5:
5(a) Write a Perl program to display various Server Information like Server Name, Server Software, Server Protocol, CGI Revision etc.

5a.cgi

#!/usr/bin/perl
print "content-type:text/html \n\n";
print <<END;
<html>
<body bgcolor="aabbcc">
<h3> Perl Program to get the Server-Information</h3>
Server Name: $ENV{'SERVER_NAME'}<br>
Server Port: $ENV{'SERVER_PORT'}<br>
Server Software: $ENV{'SERVER_SOFTWARE'}<br>
Server Protocol: $ENV{'SERVER_PROTOCOL'}<br>
CGI VERSION: $ENV{'GATEWAY_INTERFACE'}
</body>
</html>
END

(5a): Output that displays the Server Information
Program 5:

5(b). Write a Perl program to accept UNIX command from a HTML form and to display the output of the command executed.

Program:

5(b).html

```html
<html>
<body>
<form action="http://localhost/cgi-bin/5(b).cgi" method="post">
<input type="text" name="txtbox">
<input type="submit" value="Execute" >
</form>
</body></html>
```

5(b).cgi

```perl
#!/usr/bin/perl

use CGI ":standard";

print header;

print start_html("this is a page");
my $cmd=param("txtbox");
exec($cmd);
```
(5b): Output that the displays Name & message.

![Web Programming Lab Manual](image-url)
Program 6:

6(a) Write a Perl program to accept the User Name and display a greeting message randomly chosen from a list of 4 greeting messages.

6a.html

```html
<html>
<head><title>NAME</title></head>
<body bgcolor="aabbcc">
<h3>ENTER NAME & RECEIVE THE GREETINGS</h3>
<form action="/cgi-bin/6a.cgi" method="get">
  NAME:<input type="text" name="name"><br/>
  <input type="submit" value="Submit">
  <input type="reset" value="Reset">
</form>
</body>
</html>
```

6a.cgi

```perl
#!/usr/bin/perl
use CGI::standard;
print "content-type:text/html","\n\n";
$input=param(name);
print "<html><body bgcolor=aabbcc><h3>Hi,$input</h3>
  my @msgs=('Good','Welcome','Fine','Hello');
  print "The message received is: ";
  print $msgs[int rand scalar @msgs];
</h3></body></html>
```

(6a): Output that the displays Name & message.

Screen 1: The browser window is displayed with the text box to enter the name.

Screen 2: The browser window displays the name entered and the message which is picked randomly.
6(b) Write a Perl program to keep track of the number of visitors visiting the web page and to display this count of visitors, with proper headings.

6b.pl

#!/usr/bin/perl
use CGI;
$cgi=new CGI;
print $cgi->header;
print $cgi->start_html('Program 8b');
# print $cgi->start_body('<color=aabbcc>');
print $cgi->h3('<center><font color=green>Server Page Visited Information</font></center>');
# print $cgi->hr;
$count_file = "count.txt";
if(open(FILE,"<".$count_file))
{
    $no_accesses = <FILE>;
    close(FILE);
    if(open (FILE,">".$count_file))
    {
        $no_accesses++;
        print FILE $no_accesses;
        close(FILE);
    } else
    {
        print "Cannot write the file. No Visitors information in the server";
    }
} else {
    print "cannot read the counter database for visitors";
}
print ",&lt;h3>Welcome User,&lt;/h3>&gt;";
print ",&lt;h3>This page has been visited&lt;font color=red size=8&gt; $no_accesses &lt;/font&gt; times from the creation&lt;/h3&gt;";
# print $cgi->end_body;
print $cgi->end_html;

6b.html

<html>
<head><title>VISITORS</title></head>
<body bgcolor="aabbcc">
<br/>
<h3>TO KNOW THE NO. OF VISITORS FOR THIS WEB PAGE</h3>
<form action="/cgi-bin/6b.pl" method="get">
<input type="submit" value="submit">
</form>
</body>
</html>

count.txt

count=0;
(6b): Output that displays the number of visitors to this page

Screen 1: The window gives the option to see the number of visitors to this web page on clicking the submit button.

TO KNOW THE NO. OF VISITORS FOR THIS WEB PAGE

submit

Server Page Visited Information

Welcome User,

This page has been visited 104 times from the creation
Program:

7. Write a Perl program to display a digital clock which displays the current time of the server.

7.cgi -

#!/usr/bin/perl

use CGI "::standard";

print header;

print start_html("this is a page");

my ($s,$m,$h)=localtime();

$date=localtime();

print h2("Current Time");

print "$h:\$m:\$s";

Output -

![Current Time](image_url)
Program 8:

8. Write a Perl program to insert name and age information entered by the user into a table created using MYSQL and to display the current contents of this table.

8.html

```html
<html>
<head><title>Age Information</title></head>
<body bgcolor="aabbcc">
<h2>Age Information</h2>
<form action="/cgi-bin/8.cgi" method="get">
<table border="0">
<tr><td>First Name:</td><td><input type="text" name="fname"></td></tr>
<tr><td>Last Name:</td><td><input type="text" name="lname"></td></tr>
<tr><td>Age:</td><td><input type="text" name="age"></td></tr>
<tr><td><input type="submit" value="Submit Form"></td><td><input type="reset" value="Reset"></td></tr>
</table>
</form>
</body>
</html>
```

8.cgi

```perl
#!/usr/bin/perl
use DBI;
use CGI::standard;
print "content-type:text/html\n\n";
$lname = param("lname") or die "enter lanme";
$fname=param("fname")or die "enter name" ;
$age = param("age")or die "enter age";
$dbh = DBI->connect('DBI:mysql:people','root')
or die("Cannot Connect");
$sth = $dbh->prepare('insert into age_info values(?,?,?)')
or die("Cannot Prepare:");
$sth->execute($lname,$fname,$age);
$sth = $dbh->prepare('select * from age_info')
or die("Cannot People");
$sth->execute();
print "<html>";
print "<head><title>Age Info</title></head>";
print "<body bgcolor='aabbcc'>";
print "<h3> contents of age_info table</h3>";
print "<table border='1'>";
print "<tr><th>LNAME</th><th>FNAME</th><th>AGE</th></tr>";
while(($ln,$fn,$age)=$sth->fetchrow())
{
 print "<tr><td>$ln</td><td>$fn</td><td>$age</td></tr>
}
print "</table></body></html>";
```
8: Output that the displays the user name and age entered.

Screen 1: The window is displayed with the text box to enter the Name and Age of the user.

Screen 2: The window shows the table details with the updated values.
Program 9

9. Write a PHP program to store current date-time in a COOKIE and display the ‘Last visited on’ date-time on the web page upon reopening of the same page.

9.php

```php
<?
if(isset($_COOKIE['Datee']))
{
$cookiedate = $_COOKIE['Datee'];
}

$today = getdate(); //print_r($today); -you can see the format using this command
$d = $today[mday];
$m = $today[mon];
$y = $today[year];
$hr = $today[hours];
$mi = $today[minutes];
$se = $today[seconds];

$datestring = "$d-$m-$y, $hr:$mi:$se";
setcookie("Datee", $datestring);

print "Last visited date and time :".$cookiedate." ";
?>
```

OUTPUT:-

```
last visited date and time: 8-11-2019, 14:14:17
```

Program 10.

10. Write a PHP program to store page views count in SESSION, to increment the count on each refresh, and to show the count on web page.

```php
<?php
session_start();
if(isset($_SESSION['count']))
{
    print "Your session count: ".$_SESSION['count']. "<br>";
    $_SESSION['count']++;
}
else
{
    $_SESSION['count'] = 1;
    print "Session does not exist";
}
?>
```

Output –
After that the session count will be increased each time it will be opened as follows

![Output Image]
Program 11.

11. Create a XHTML form with Name, Address Line1, Address Line2, and E-mail text fields. On submitting, store the values in MYSQL table. Retrieve and display the data based on Name.

11. XHTML (page to enter the user details)

```xml
<?xml version="1.0" encoding="ISO-8859-1"?>
<html xmlns="http://www.w3.org/1999/xhtml">
    <body bgcolor="aabbcc">
        <h3>Program to collect the Customer-Information</h3>
        <form action="/php/11.php" method="post">
            <table border="0">
                <tr>
                    <td>Enter Name:</td>
                    <td><input type="text" name="name"></td>
                </tr>
                <tr>
                    <td>Enter Address Line1:</td>
                    <td><input type="text" name="add1"></td>
                </tr>
                <tr>
                    <td>Enter Address Line2:</td>
                    <td><input type="text" name="add2"></td>
                </tr>
                <tr>
                    <td>Enter Email-id:</td>
                    <td><input type="text" name="email"></td>
                </tr>
                <tr><td></td></tr>
                <tr>
                    <td colspan="2"><input type="submit" value="Submit"></td>
                </tr>
                <tr><td colspan="2"></td></tr>
                <tr><td colspan="2"></td></tr>
                <tr><td colspan="2"></td></tr>
                <tr><td colspan="2"><input type="reset" value="Reset"></td></tr>
            </table>
        </form>
    </body>
</html>
```

11b.html (html page to make the search)

```html
<html>
    <body bgcolor="aabbcc">
        <h3>Search Page</h3>
        <form action="/php/11b.php" method="post">
            Enter the name to be searched:
            <input type="text" name="search">
            <br/>
            <input type="submit" value="submit">
            <input type="reset" value="Reset">
        </form>
    </body>
</html>
```
11.php (To update the details entered by the user in MYSQL table created)

```php
<?php
$name=$HTTP_POST_VARS['name'];
$add1=$HTTP_POST_VARS['add1'];
$add2=$HTTP_POST_VARS['add2'];
$email=$HTTP_POST_VARS['email'];

mysql=mysql_connect("localhost","root")
or die("can't connect");
mysql_select_db("cus_info")
or die("can't select");
mysql_query("insert into address values('name','$add1','$add2','$email')")
or die("query failed to insert");
$result=mysql_query("select * from address");
?>

<html>
<head><title>PHP and MYSQL</title></head>
<body bgcolor="aabbcc">
<h3>Page to display the Stored data</h3>
<table border="1">
<tr>
<th>NAME</th>
<th>ADDRESS Line1</th>
<th>ADDRESS Line2</th>
<th>EMAIL-id</th>
</tr>
<?while($array=mysql_fetch_row($result)):
<tr>
<td><?echo $array[0];?></td>
<td><?echo $array[1];?></td>
<td><?echo $array[2];?></td>
<td><?echo $array[3];?></td>
</tr>
<? endwhile;?><br/>
</table>
</body>
</html>
```
11b.php (To make the search based on the name entered in the table)

```php
<?
$search = $HTTP_POST_VARS['search'];
$mysql = mysql_connect("localhost","root") or die("Cannot Connect");
mysql_select_db("cus_info") or die("Cannot select the database");
$result = mysql_query("select * from address where name like '%%$search%'") or die("cannot execute");
?>
<html>
<body bgcolor="aabbcc">
    <? if(mysql_num_rows($result)>0): ?>
    <table border = "1">
        <tr>
            <th>NAME</th>
            <th>ADDRESS LINE1</th>
            <th>ADDRESS LINE2</th>
            <th>EMAIL</th>
        </tr>
        <br/>
        <h3> Search Results</h3>
        <? while($array = mysql_fetch_row($result)):?>
            <tr>
                <td><?echo $array[0];?></td>
                <td><?echo $array[1];?></td>
                <td><?echo $array[2];?></td>
                <td><?echo $array[3];?></td>
                <td><?echo $array[4];?></td>
            </tr>
        <? endwhile; ?>
    </table>
    <? else: ?>
        <?echo "no rows selected";>
    <? endif; ?>
</table>
</body>
</html>
```
11: Output to collect the user information & displays the stored results.

Screen 1: The window gives the option to enter the user information.

Screen 2: The user can retrieve the results based on the name entered.
12. Build a Rails application to accept book information viz. Accession number, title, authors, edition and publisher from a web page and store the information in a database and to search for a book with the title specified by the user and to display the search results with proper headings.

1st Command Prompt

C:\>cd Ruby
C:\Ruby> cd mysql
C:\Ruby\mysql>cd bin
C:\Ruby\mysql\bin>mysql -u root
mysql>create databaser_development;
mysql>create databaser_product;
mysql>create databaser_test;
mysql> user_development;
mysql>create table books(id int not null auto_increment,
    name varchar(80) not null,
    description text not null,
    price decimal(8,2) not null,
    primary key(id));

2nd Command Prompt

C:\>cd Ruby
C:\Ruby>cd rails_apps
C:\Ruby\rails_apps>cd rlab12
C:\Ruby\rails_apps\rlab12>rails raghu
C:\Ruby\rails_apps\rlab12\raghu> ruby script/generate controller x
C:\Ruby\rails_apps\rlab12\raghu> ruby script/generate model y
C:\Ruby\rails_apps\rlab12\raghu> ruby script/server
pr12.rhtml

<html>
<head>
<title>Program 12</title>
</head>
<body>
<center>
<table border=5 cellpadding=5 cellspacing=5>
<tr>
<th>ID</th>
<th>NAME</th>
<th>DESCRIPTION</th>
<th>PRICE</th>
</tr>
<tr>
<td><%= @id %></td>
<td><%= @name %></td>
<td><%= @description %></td>
<td><%= @price %></td>
</tr>
</table>
</center>
</body>
</html>

raghu_controller.rb

class RaghuController < ApplicationController
  def pr12
    @id="123"
    @name="HTML"
    @description="Programming Language"
    @price="330.50"
  end
end