

1. Design the following static web pages required for an online book store web site.

1) **HOME PAGE:**

The static home page must contain three **frames**.

**Top frame:** Logo and the college name and links to Home page, Login page, Registration page, Catalogue page and Cart page (the description of these pages will be given below).

**Left frame:** At least four links for navigation, which will display the catalogue of respective links.

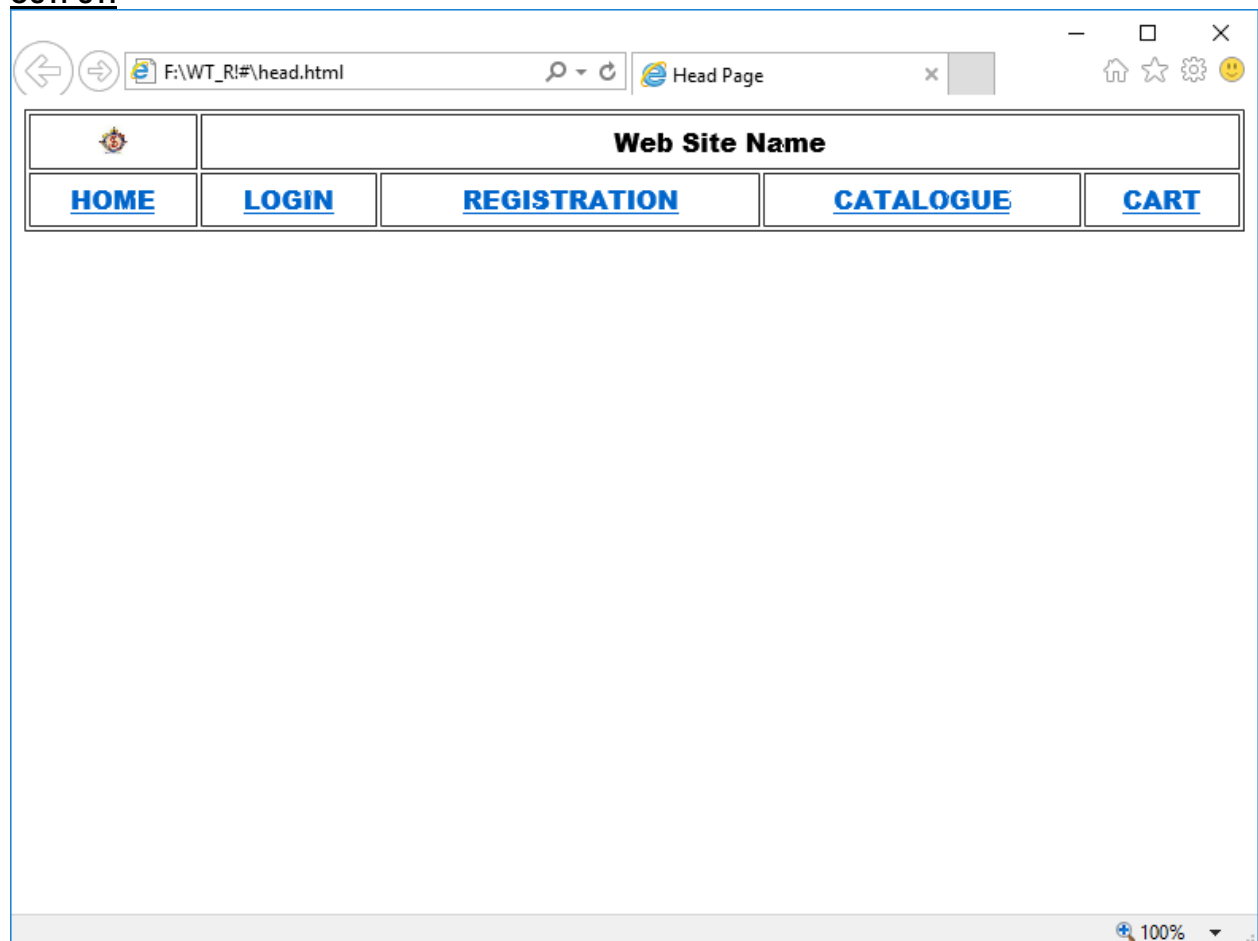
For e.g.: When you click the link "**MCA**" the catalogue for **MCA** Books should be displayed in the Right frame.

**Right frame:** The *pages to the links in the left frame must be loaded here*. Initially this page contains description of the web site.

**head.html**

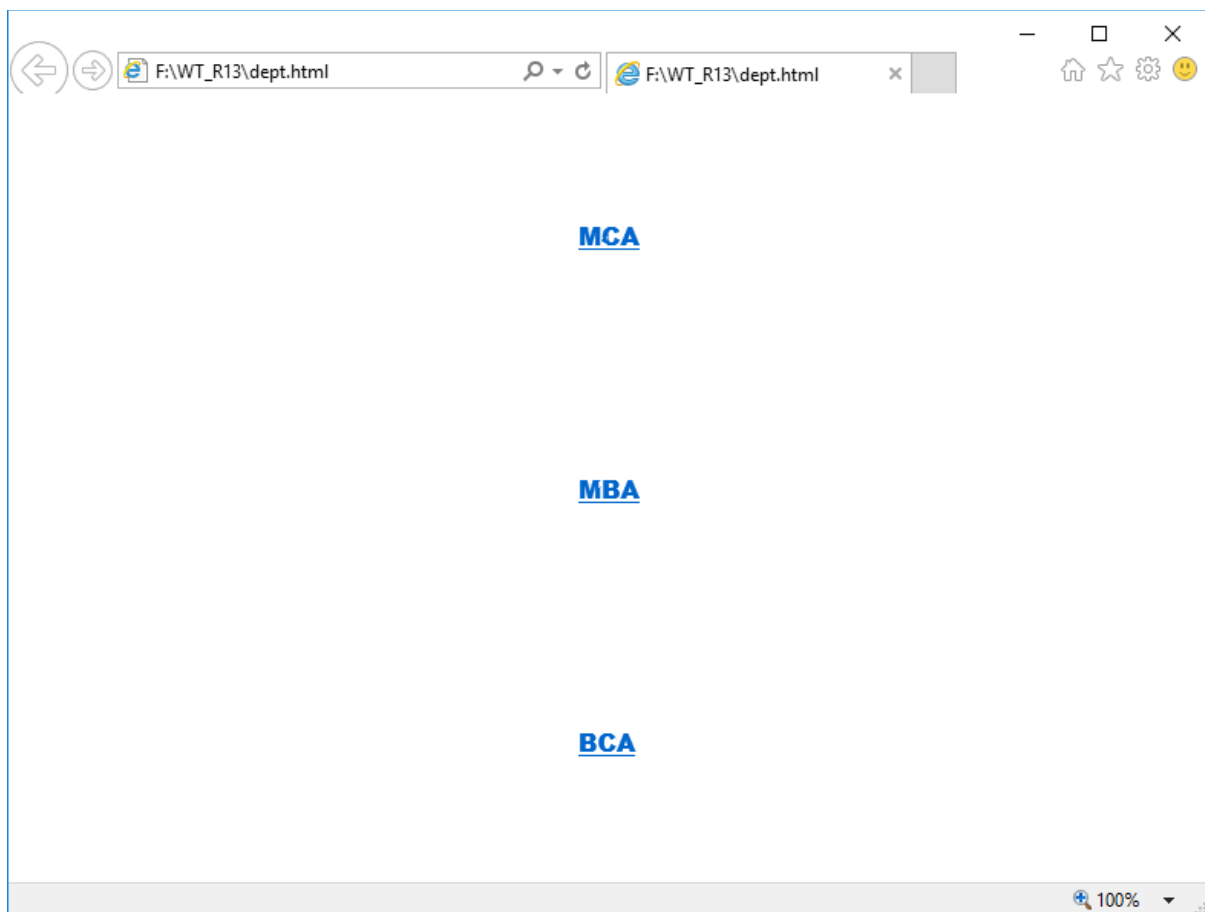
```
<html>
<head>
    <title>Head Page</title>
</head>
<body>
    <font face="Arial Black" size="3">
        <table border="1" cellspacing="2" cellpadding="5" width="100%">
            <tr>
                <td align="center"></td>
                <td colspan="4" align="center">Web Site Name</td>
            </tr>
            <tr>
                <td align="center"><a href="description.html" target="des_page">HOME</a></td>
                <td align="center"><a href="login.html" target="des_page">LOGIN</a></td>
                <td align="center"><a href="registration.html" target="des_page">REGISTRATION</a></td>
                <td align="center"><a href="catalogue.html" target="des_page">CATALOGUE</a></td>
                <td align="center"><a href="cart.html" target="des_page">CART</a></td>
            </tr>
        </table>
    </font>
</body>
</html>
```

**OUTPUT:**



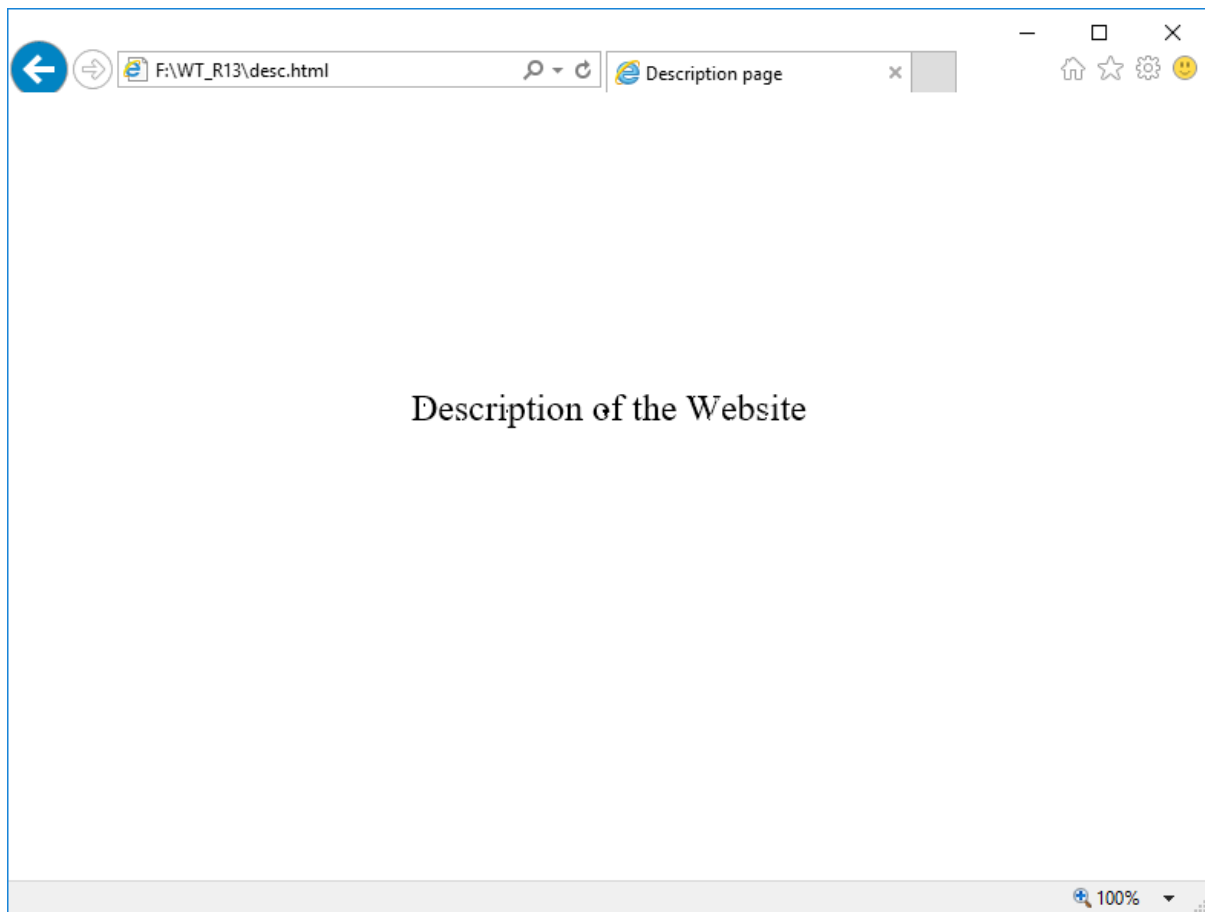
**dept.html**

```
<html>
<head>
  <title>Departments Page</title>
</head>
<body>
<font face="Arial Black" size="4">
<table align="center" height="100%">
  <tr>
    <td><a href="cat_mca.html" target="des_page">MCA</a></td>
  </tr>
  <tr>
    <td><a href="cat_mba.html" target="des_page">MBA</a></td>
  </tr>
  <tr>
    <td><a href="cat_bca.html" target="des_page">BCA</a></td>
  </tr>
</table>
</font>
</body>
</html>
```

**OUTPUT:**

**desc.html**

```
<html>
  <head>
    <title> Description page</title>
  </head>
  <body>
    <br><br><br><br><br><br><br><br><br>
    <font face="TIMES NEW ROMAN" size="5">
      <center>
        Description of the Website
      </center>
    </font>
  </body>
</html>
```

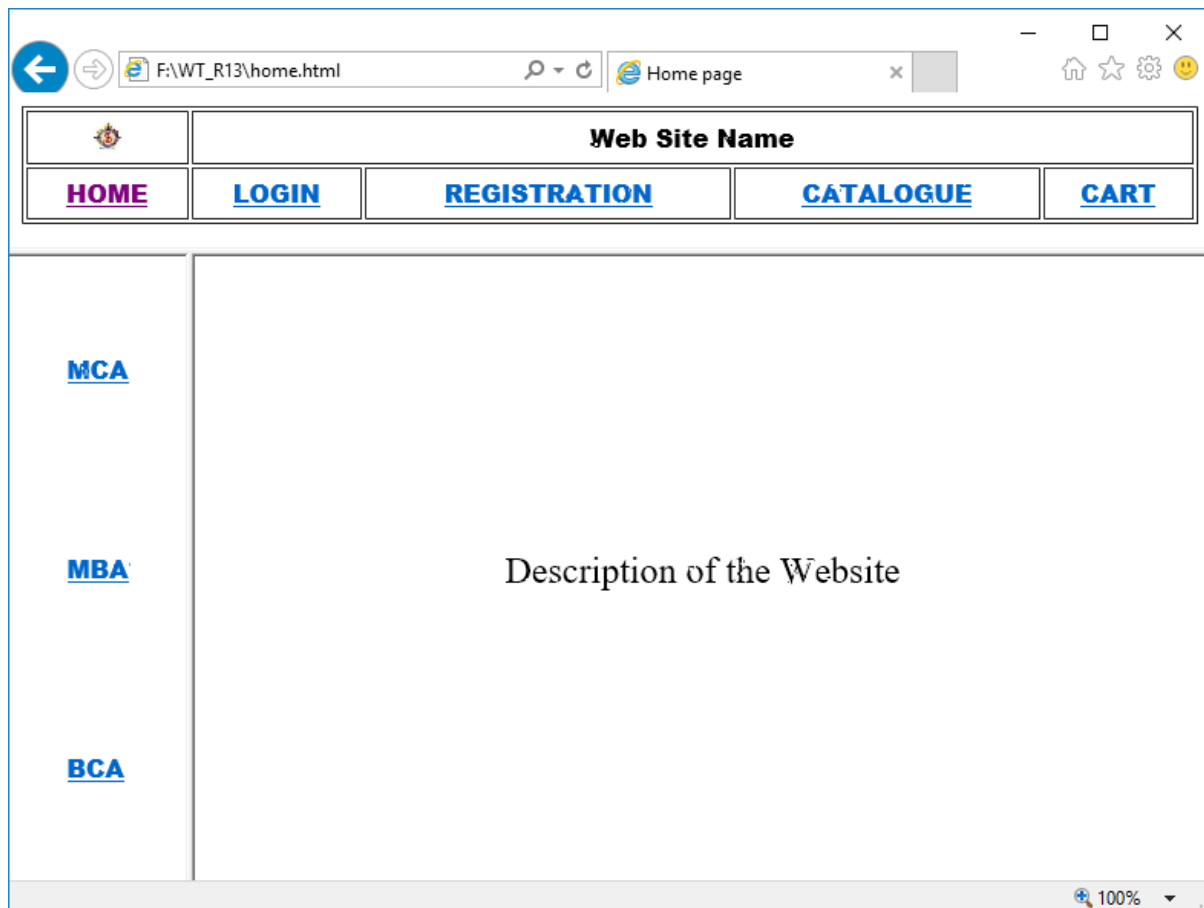
**OUTPUT:**

**home.html**

```

<html>
  <head>
    <title>Home page</title>
  </head>
  <frameset rows="20,80">
    <frame src="head.html" name="head_page">
      <frameset cols="15,85">
        <frame src="dept.html" name="dept_page">
          <frame src="desc.html" name="des_page">
        </frameset>
      </frameset>
    </frameset>
  </html>

```

**OUTPUT**



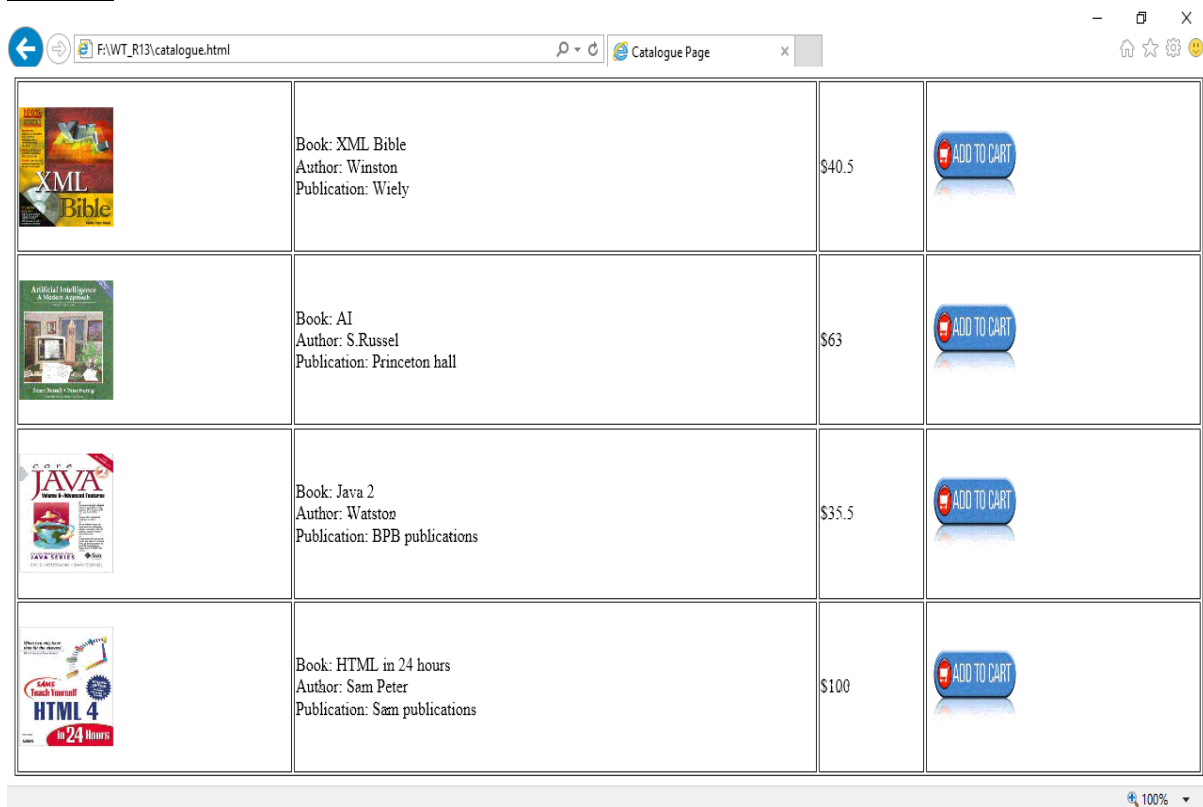
**3. CATALOGUE PAGE:**



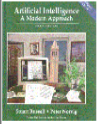



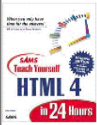

The catalogue page should contain the details of all the books available in the web site in a table. The details should contain the following:

1. Snap shot of Cover Page.
2. Author Name.
3. Publisher.
4. Price.
5. Add to cart button.

**catalogue.html**

```
<html>
<head>
    <title> Catalogue Page</title>
</head>
<body>
    <table width="100%" height="100%" border="1">
        <tr>
            <td></td>
            <td>Book: XML Bible
                <br>Author: Winston
                <br>Publication: Wiely</td>
            <td>$40.5</td>
            <td></td>
        </tr>
        <tr>
            <td></td>
            <td>Book: AI
                <br>Author: S.Russel
                <br>Publication: Princeton hall</td>
            <td>$63</td>
            <td></td>
        </tr>
        <tr>
            <td></td>
            <td>Book: Java 2
                <br>Author: Watston
                <br>Publication: BPB publications</td>
            <td>$35.5</td>
            <td></td>
        </tr>
        <tr>
            <td></td>
            <td>Book: HTML in 24 hours
                <br>Author: Sam Peter
                <br>Publication: Sam publications</td>
            <td>$100</td>
            <td></td>
        </tr>
    </table>
</body>
</html>
```

**OUTPUT:**


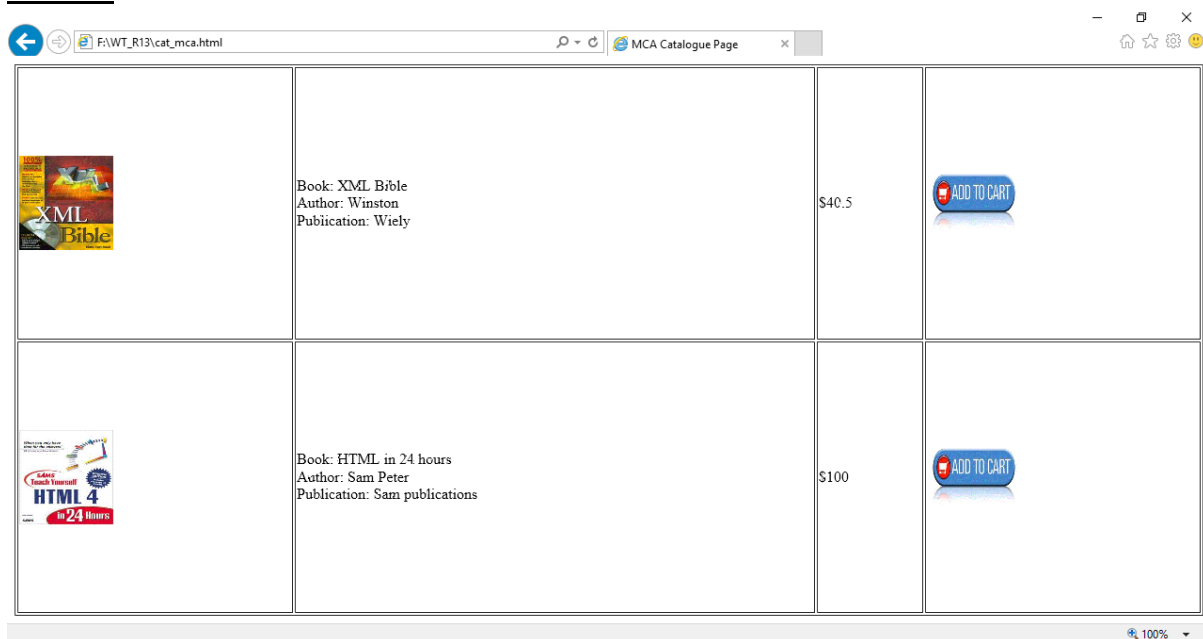
	Book: XML Bible Author: Winston Publication: Wiley	\$40.5	
	Book: AI Author: S. Russel Publication: Princeton hall	\$63	
	Book: Java 2 Author: Watston Publication: BPB publications	\$35.5	
	Book: HTML in 24 hours Author: Sam Peter Publication: Sam publications	\$100	

**cat\_mca.html**

```

<html>
<head>
    <title> MCA Catalogue Page</title>
</head>
<body>
    <table width="100%" height="100%" border="1">
        <tr>
            <td></td>
            <td>Book: XML Bible
                <br>Author: Winston
                <br>Publication: Wiely</td>
            <td>$40.5</td>
            <td></td>
        </tr>
        <tr>
            <td></td>
            <td>Book: HTML in 24 hours
                <br>Author: Sam Peter
                <br>Publication: Sam publications</td>
            <td>$100</td>
            <td></td>
        </tr>
    </table>
</body>
</html>

```

**OUTPUT:**

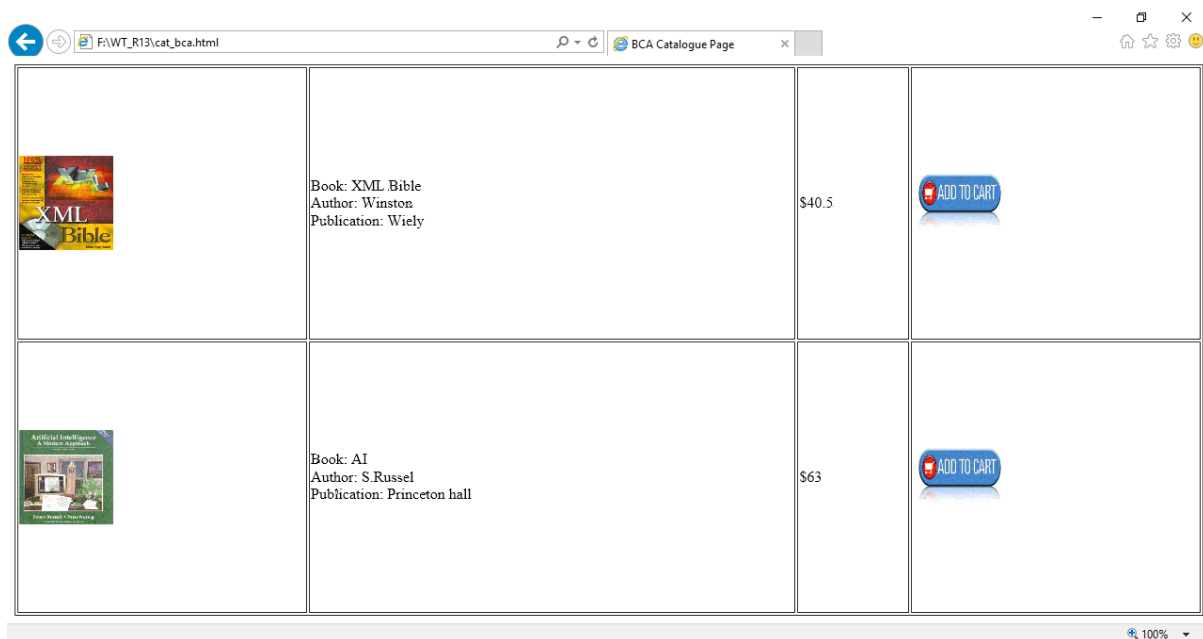


**cat\_bca.html**

```

<html>
<head>
    <title> BCA Catalogue Page</title>
</head>
<body>
    <table width="100%" height="100%" border="1">
        <tr>
            <td></td>
            <td>Book: XML Bible
                <br>Author: Winston
                <br>Publication: Wiely</td>
            <td>$40.5</td>
            <td></td>
        </tr>
        <tr>
            <td></td>
            <td>Book: AI
                <br>Author: S.Russel
                <br>Publication: Princeton hall</td>
            <td>$63</td>
            <td></td>
        </tr>
    </table>
</body>
</html>

```

**OUTPUT:**

**4. REGISTRATION PAGE:**

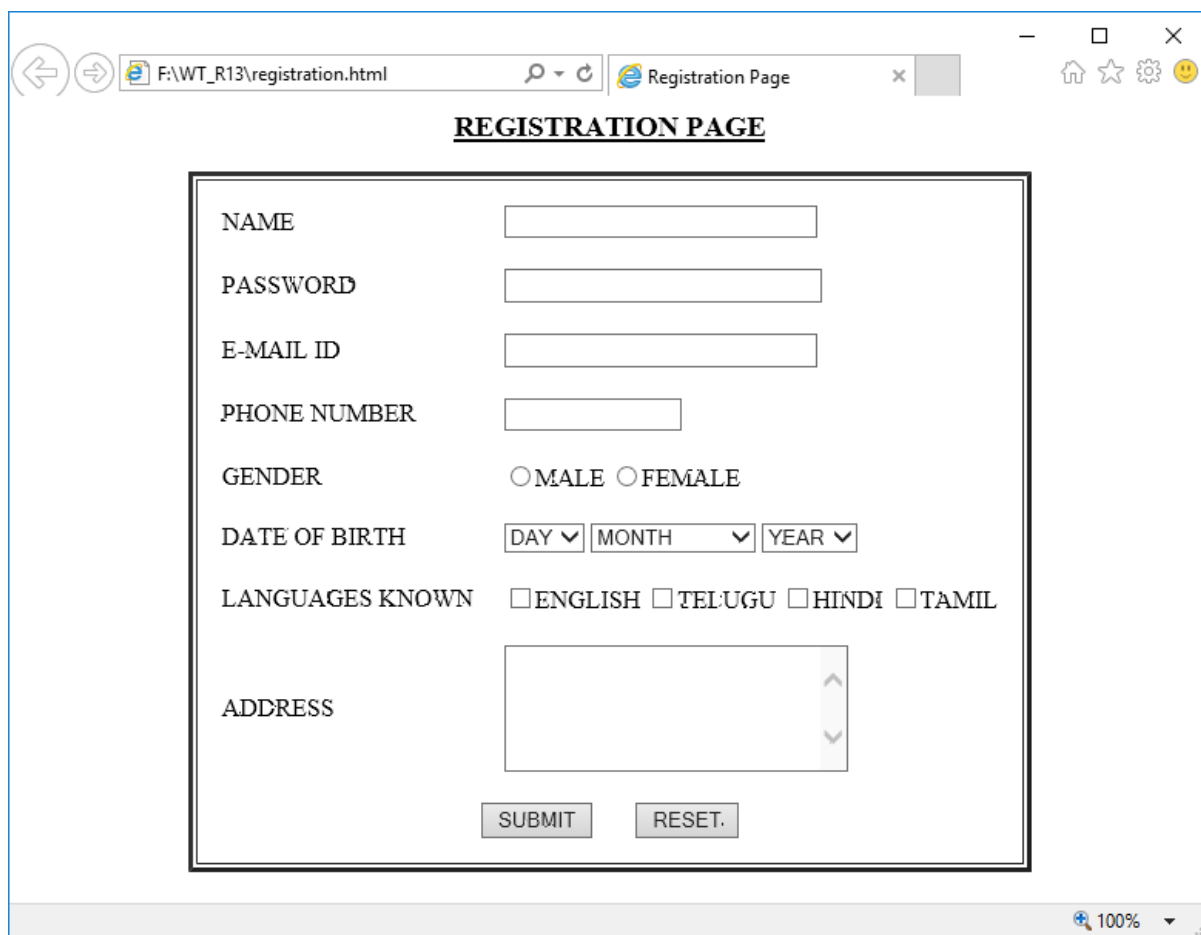
Create a "registration form" with the following fields

- 1) Name (Text field)
- 2) Password (password field)
- 3) E-mail id (text field)
- 4) Phone number (text field)
- 5) Sex (radio button)
- 6) Date of birth (3 select boxes)
- 7) Languages known (check boxes – English, Telugu, Hindi, Tamil)
- 8) Address (text area)

**registration.html**

```
<html>
<head>
  <title>Registration Page</title>
</head>
<body>
<center>
<h3 align="center"><u>REGISTRATION PAGE</u></h3>
<table border="3">
<tr><td>
<form name="f1" action="" method="post" onsubmit="">
<table cellpadding="5">
  <tr><td>NAME</td><td><input type="text" size="30" name="uname"/></td></tr>
  <tr><td>PASSWORD</td><td><input type="password" size="30" name="pass"/></td></tr>
  <tr><td>E-MAIL ID</td><td><input type="text" size="30" name="email"/></td></tr>
  <tr><td>PHONE NUMBER</td><td><input type="text" size="15" name="phone"/></td></tr>
  <tr><td>GENDER</td><td><input type="radio" name="gen" value="m" />MALE
    <input type="radio" name="gen" value="f" />FEMALE </td></tr>
  <tr><td>DATE OF BIRTH</td>
    <td><select name="day">
      <option value="day">DAY</option>
      <option value="1">1</option>
      <option value="2">2</option>
      <option value="3">3</option>
      <option value="4">4</option>
      <option value="5">5</option>
      <option value="6">6</option>
      <option value="7">7</option>
      <option value="8">8</option>
      <option value="9">9</option>
      <option value="10">10</option>
      <option value="11">11</option>
      <option value="12">12</option>
      <option value="13">13</option>
      <option value="14">14</option>
      <option value="15">15</option>
      <option value="16">16</option>
      <option value="17">17</option>
      <option value="18">18</option>
      <option value="19">19</option>
      <option value="20">20</option>
      <option value="21">21</option>
      <option value="22">22</option>
      <option value="23">23</option>
      <option value="24">24</option>
      <option value="25">25</option>
      <option value="26">26</option>
      <option value="27">27</option>
      <option value="28">28</option>
      <option value="29">29</option>
      <option value="30">30</option>
      <option value="31">31</option>
    </select>
      <select name="month">
        <option value="month">MONTH</option>
        <option value="jan">JANUARY</option>
        <option value="feb">FEBRUARY</option>
        <option value="mar">MARCH</option>
      </select>
    </td></tr>
</table>
</td></tr>
</table>
```



**OUTPUT:**

The screenshot shows a web browser window with the address bar displaying "F:\WT\_R13\registration.html" and the page title "Registration Page". The browser window includes standard navigation buttons (back, forward, home, star, settings, smiley) and a zoom level of 100%.

The registration form is titled **REGISTRATION PAGE** and contains the following fields and controls:

- NAME:
- PASSWORD:
- E-MAIL ID:
- PHONE NUMBER:
- GENDER: ☐ MALE ☐ FEMALE
- DATE OF BIRTH: DAY  MONTH  YEAR
- LANGUAGES KNOWN: ☐ ENGLISH ☐ TELUGU ☐ HINDI ☐ TAMIL
- ADDRESS:

At the bottom of the form are two buttons: **SUBMIT** and **RESET.**

**5. Design a web page using CSS (Cascading Style Sheets) which includes the following:**

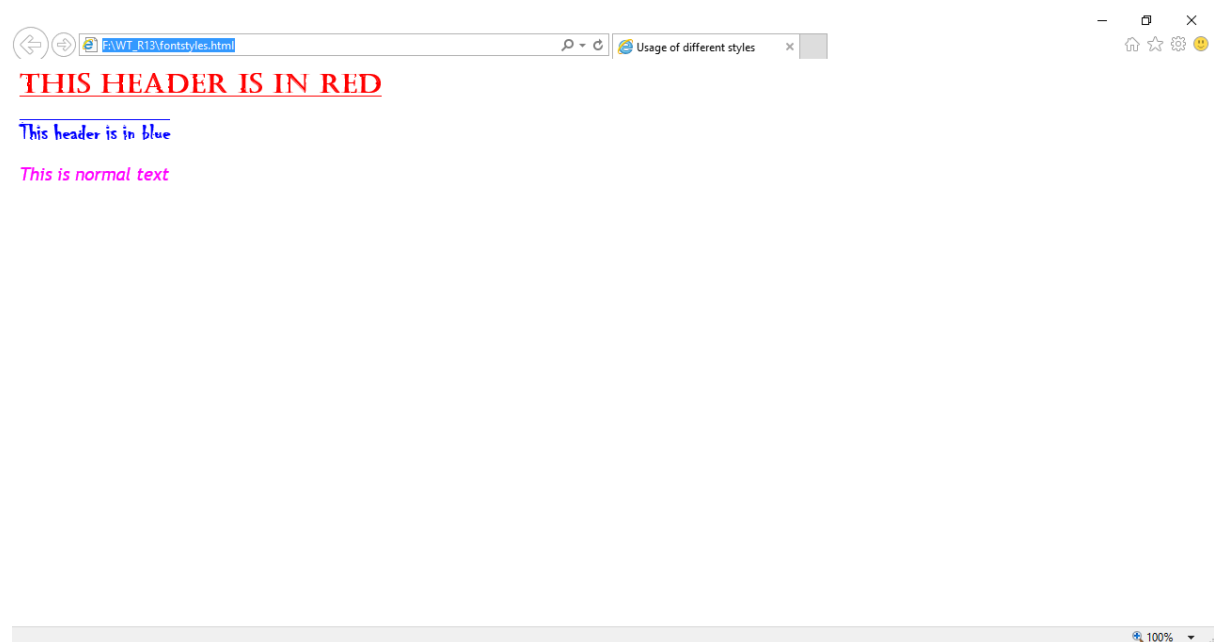
**A. Use different font, styles:** In the style definition you define how each selector should work (font, color etc.). Then, in the body of your pages, you refer to these selectors to activate the styles.

**styles.css**

```
h1
{
    color:red;
    font-family:caStellar;
    font-size:22pt;
    text-decoration:underline;
}
h2
{
    color:blue;
    font-family:Chiller;
    font-size:18pt;
    text-decoration:overline;
}
p
{
    color:magenta;
    font-family:Trebuchet MS;
    font-size:14pt;
    font-style:italic;
}
```

**fontstyles.html**

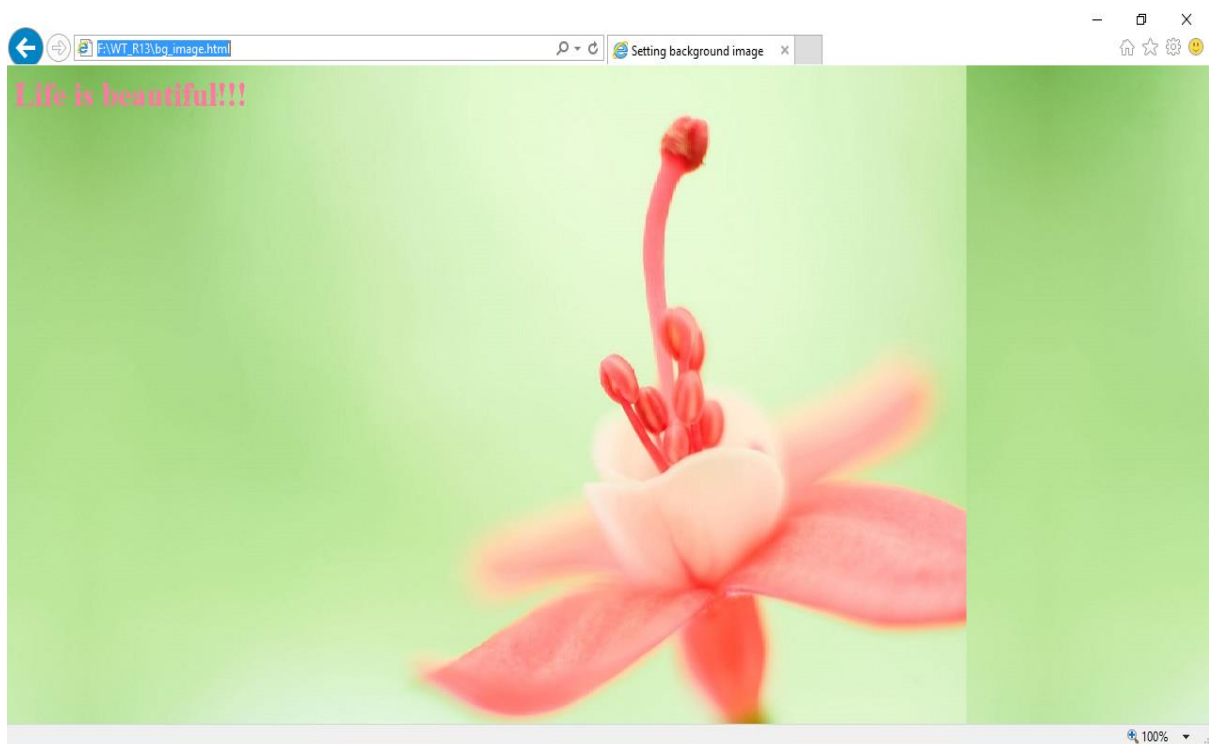
```
<html>
<head>
    <title>Usage of different font,styles and colors </title>
    <link rel="stylesheet" type="text/css" href="styles.css"/>
</head>
<body>
    <h1>This header is in red</h1>
    <h2>This header is in blue</h2>
    <p>This is normal text</p>
</body>
</html>
```

**OUTPUT:**

**B. Set a background image for both the page and single elements on the page.****bg\_image.html**

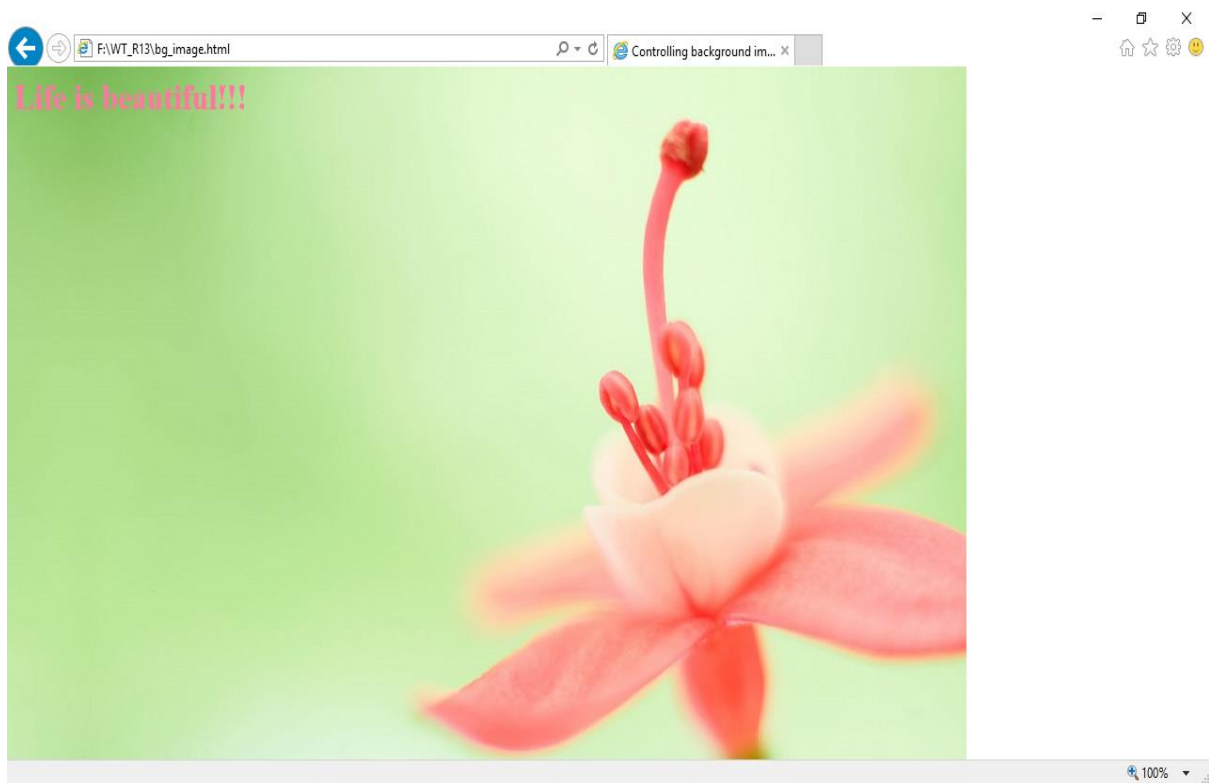
```
<html>
<head>
  <title>Setting background image</title>
  <style type="text/css">
    body
    {
      background-image:url("img11.jpg");

    }
  </style>
</head>
<body text="#ee78a2">
  <h1>Life is beautiful!!!</h1>
</body>
</html>
```

**OUTPUT:**

**C. Control the repetition of the image with the background-repeat property.****bg\_repeat.html**

```
<html>
<head>
  <title>Controlling background image</title>
  <style type="text/css">
    body
    {
      background-image:url("img11.jpg");
      background-repeat:no-repeat
    }
  </style>
</head>
<body text="#fe78a2">
  <h1>Life is beautiful!!!</h1>
</body>
</html>
```

**OUTPUT**

6. Write an XML file which will display the Book information which includes the following:

- 1) Title of the book
- 2) Author Name
- 3) ISBN number
- 4) Publisher name
- 5) Edition
- 6) Price

Write a Document Type Definition (DTD) to validate the above XML file.

#### **catalog.dtd**

```
<!ELEMENT Catalog (Book)*>
<!ELEMENT Book (Title, Author, Publication ,Edition, ISBN, Price)>
<!ELEMENT Title (#PCDATA)>
<!ELEMENT Publication (#PCDATA)>
<!ELEMENT Edition (#PCDATA)>
<!ELEMENT ISBN (#PCDATA)>
<!ELEMENT Price (#PCDATA)>
```

#### **library.css**

```
Catalog
{
    font-family:arial;
    color:blue;

    font-size:16pt
}
Book
{
    font-family:times new roman;
    color:blue;
    table-layout:auto;
    font-size:14pt
}
Title
{
    font-family:arial;
    color:green;
    margin-left:20pt;
    font-size:12pt
}
Author
{
    font-family:arial;
    color:magenta
}
Publication,Edition,ISBN,Price
{
    display:block;
    font-family:arial;
    color:black;
    font-size:10pt;
    margin-left:40pt
}
```

#### **Cataloguedemo.xml**

```
<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<?xml-stylesheet type="text/css" href="library.css" ?>
<!DOCTYPE Catalog SYSTEM "catalog.dtd">

<Catalog>
  <Book>
    <Title>XML Bible</Title>
    <Author>Winston</Author>
```



```

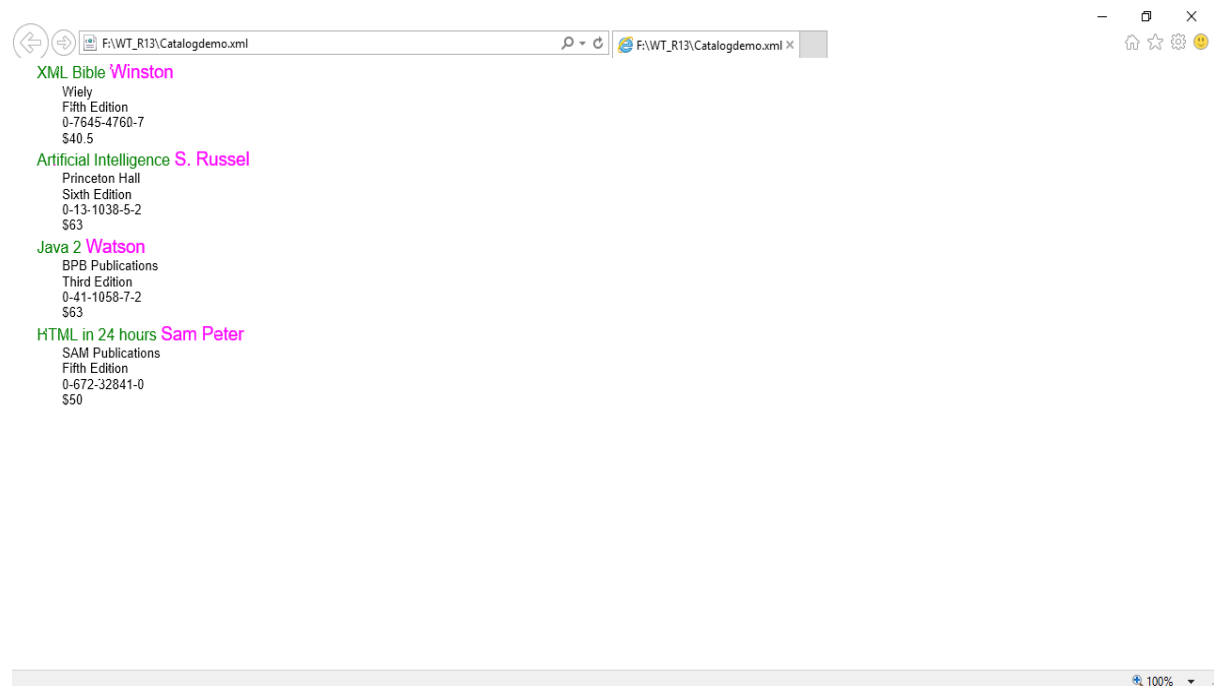
    <Publication>Wiely</Publication>
    <Edition>Fifth Edition</Edition>
    <ISBN>0-7645-4760-7</ISBN>
    <Price>$40.5</Price >
</Book>

<Book>
  <Title>Artificial Intelligence</Title>
  <Author>S. Russel</Author>
  <Publication> Princeton Hall </Publication>
  <Edition> Sixth Edition</Edition>
  <ISBN> 0-13-1038-5-2 </ISBN>
  <Price>$63</Price>
</Book>

<Book>
  <Title>Java 2</Title>
  <Author>Watson</Author>
  <Publication>BPB Publications</Publication>
  <Edition>Third Edition</Edition>
  <ISBN>0-41-1058-7-2</ISBN>
  <Price>$63</Price>
</Book>

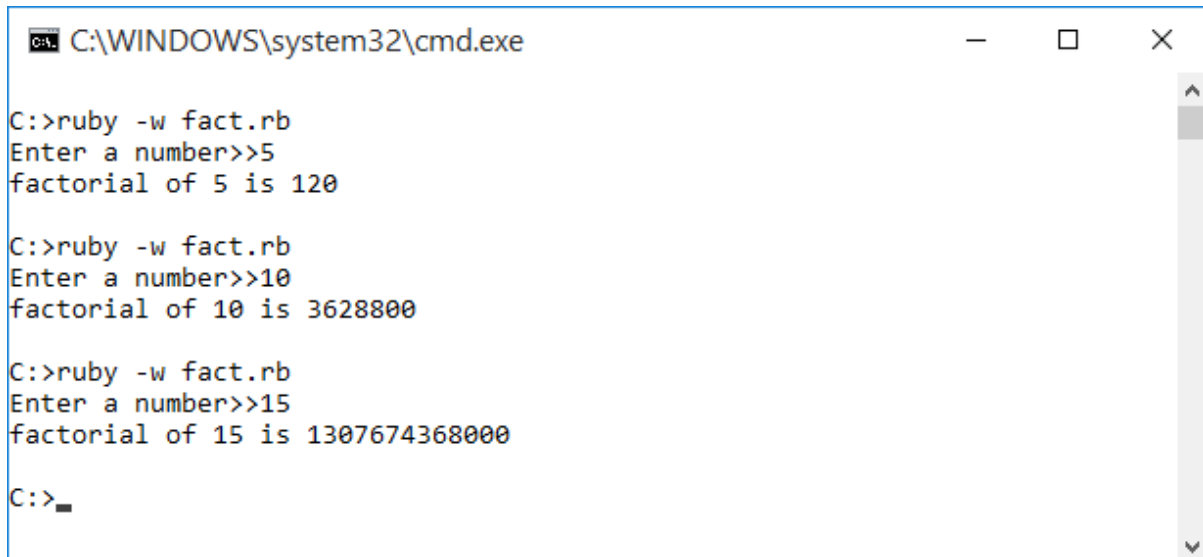
<Book>
  <Title>HTML in 24 hours </Title>
  <Author> Sam Peter</Author>
  <Publication> SAM Publications </Publication>
  <Edition>Fifth Edition</Edition>
  <ISBN> 0-672-32841-0 </ISBN>
  <Price> $50 </Price >
</Book>
</Catalog>

```

**OUTPUT:**

**7. Write Ruby program reads a number and calculates the factorial value of it and prints the same.****fact.rb**

```
puts "Enter a number>>"
n = gets.to_i
f=1
i=1
while i<=n do
  f = f*i
  i= i+1
end
puts "factorial of #{n} is #{f}"
```

**OUTPUT**

```
C:\WINDOWS\system32\cmd.exe

C:>ruby -w fact.rb
Enter a number>>5
factorial of 5 is 120

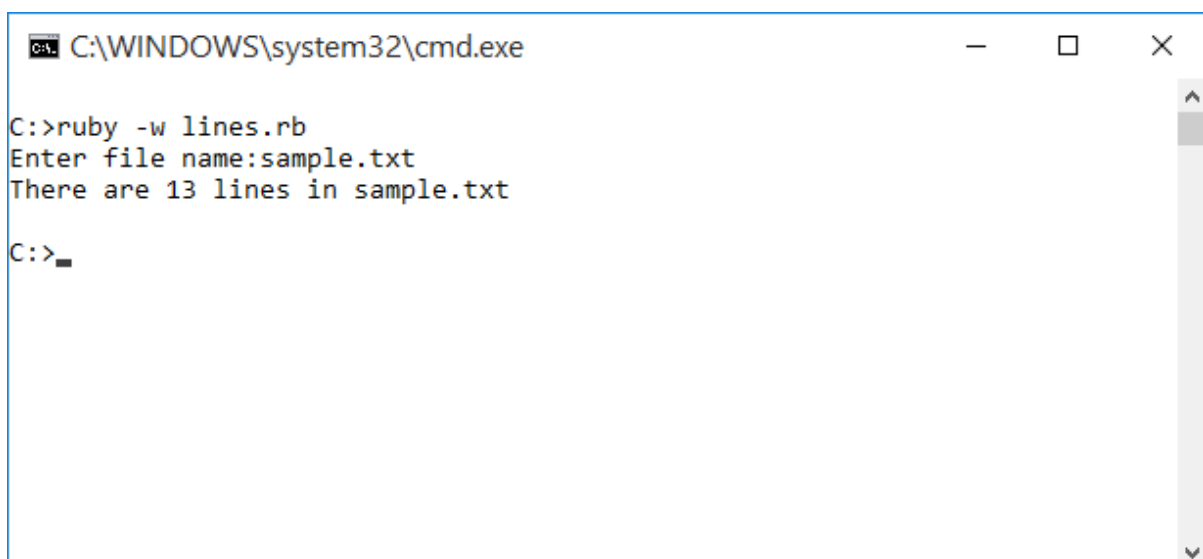
C:>ruby -w fact.rb
Enter a number>>10
factorial of 10 is 3628800

C:>ruby -w fact.rb
Enter a number>>15
factorial of 15 is 1307674368000

C:>_
```

**8. Write a Ruby program which counts number of lines in a text file using its regular expressions facility****lines.rb**

```
print "Enter file name:";
fname = gets.chomp;
count = IO.readlines(fname).size
puts "There are #{count} lines in #{fname}";
```

**OUTPUT:**

```
C:\WINDOWS\system32\cmd.exe

C:>ruby -w lines.rb
Enter file name:sample.txt
There are 13 lines in sample.txt

C:>_
```

**9. Write a Ruby program that uses iterator to find out the length of a string.****iterator.rb**

```

print "Enter a string:"
str = gets.chomp
c=0
str.each_char do |i|
  c=c+1
end
puts "Length of #{str}: #{c}"

```

**OUTPUT**

```

C:\WINDOWS\system32\cmd.exe

C:>ruby -w iterator.rb
Enter a string:sacet
Length of sacet: 5

C:>ruby -w iterator.rb
Enter a string:Web Technologies Lab
Length of Web Technologies Lab: 20

C:>

```

**10. Write simple Ruby programs that uses arrays in Ruby.****bsort.rb**

```

puts "Bubble Sort"
puts "======"

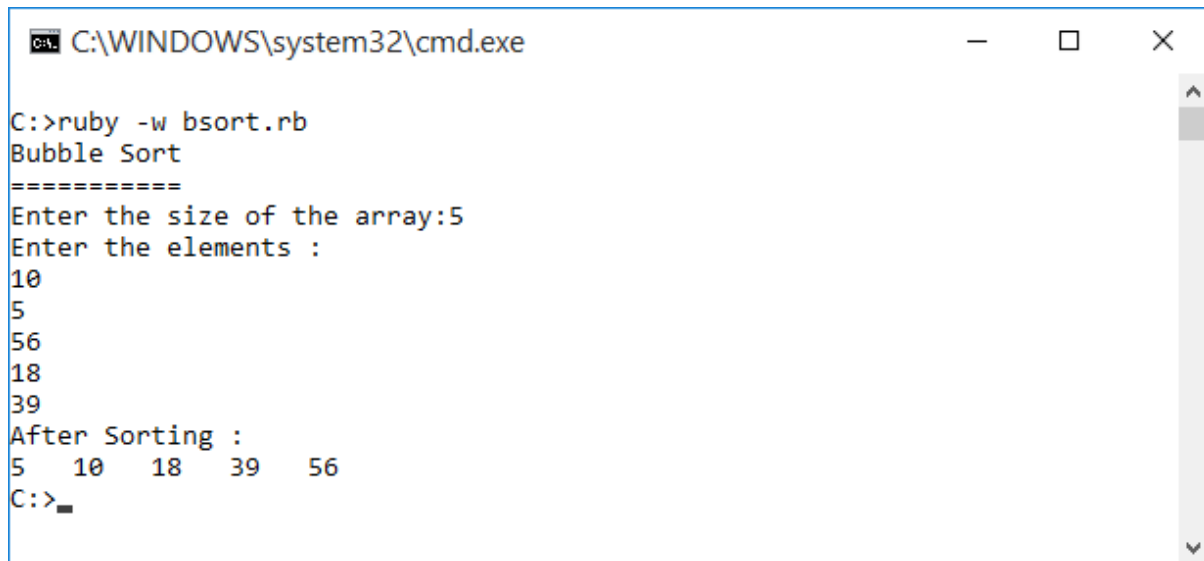
print "Enter the size of the array:"
n=gets.to_i

a=Array.new(n)
puts "Enter the elements : "
for i in 0..n-1
  a[i]=gets.to_i
end

#Bubble sort Algorithm
t=0
for i in 0..n-1
  for j in i..n-1
    if (a[i] > a[j])
      t=a[j]
      a[j]=a[i]
      a[i]=t
    end
  end
end

puts "After Sorting : "
for i in 0..n-1
  print "#{a[i]} "
end

```

**OUTPUT:**

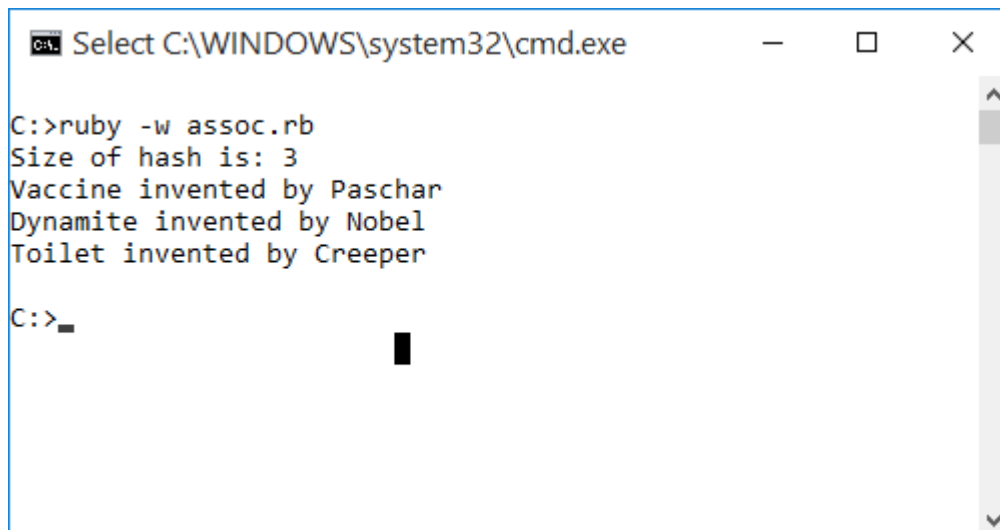
```
C:\WINDOWS\system32\cmd.exe

C:>ruby -w bsort.rb
Bubble Sort
=====
Enter the size of the array:5
Enter the elements :
10
5
56
18
39
After Sorting :
5 10 18 39 56
C:>
```

**11. Write programs which uses associative arrays concept of Ruby.**

**assoc.rb**

```
creators = Hash.new;
creators = {"Vaccine"=>"Paschar","Dynamite"=>"Nobel","Toilet"=>"Creeper"};
size = creators.length;
puts "Size of hash is: #{size}";
creators.each do |key,val|
    puts "#{key} invented by #{val}"
end
```

**OUTPUT:**

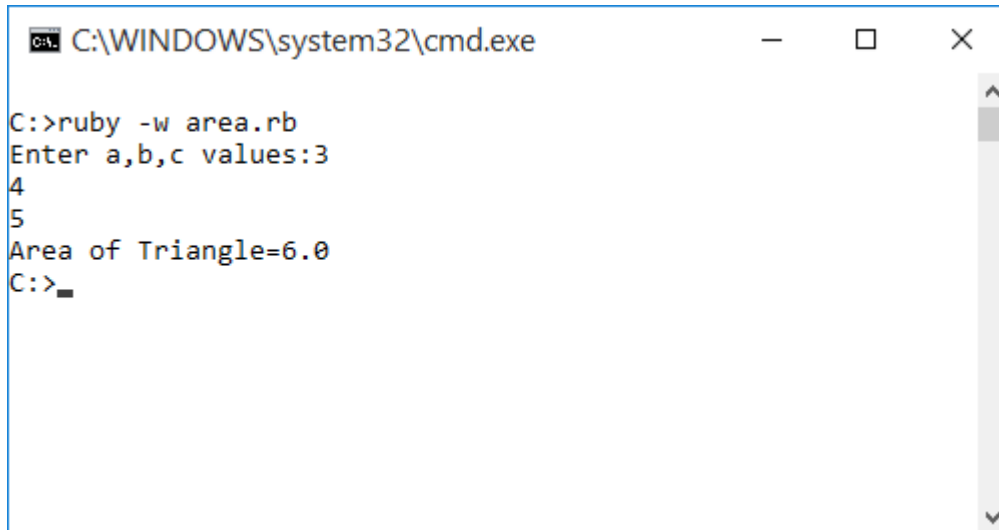
```
Select C:\WINDOWS\system32\cmd.exe

C:>ruby -w assoc.rb
Size of hash is: 3
Vaccine invented by Paschar
Dynamite invented by Nobel
Toilet invented by Creeper

C:>
```

**12. Write Ruby program which uses Math module to find area of a triangle.****area.rb**

```
print "Enter a,b,c values:"
a=gets.to_i
b=gets.to_i
c=gets.to_i
s = (a+b+c)/2
area = Math.sqrt(s*(s-a)*(s-b)*(s-c)).round(2)
print "Area of Triangle=#{area}"
```

**OUTPUT:**

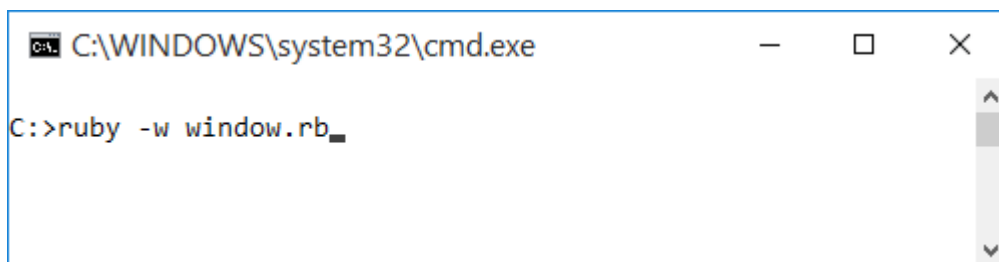
```
C:\WINDOWS\system32\cmd.exe

C:>ruby -w area.rb
Enter a,b,c values:3
4
5
Area of Triangle=6.0
C:>_
```

**13. Write Ruby program which uses tk module to display a window****window.rb**

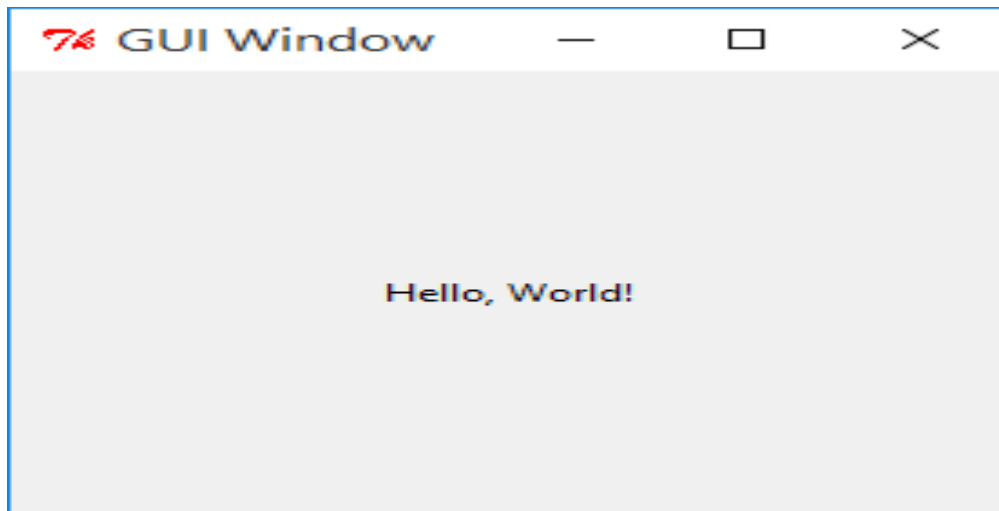
```
require 'tk'

root = TkRoot.new { title "GUI Window" }
TkLabel.new(root) do
  text 'Hello, World!'
  pack("side" => "right", "padx"=> "100", "pady"=> "100")
end
Tk.mainloop
```

**OUTPUT:**

```
C:\WINDOWS\system32\cmd.exe

C:>ruby -w window.rb_
```



**14. Define Complex class in Ruby and do write methods to carry operations on Complex objects.****Cmplx.rb**

```

class Cmplx
  attr_accessor :real, :imag

  def read
    @real=gets.to_i
    @imag=gets.to_i
  end

  def add(other)
    ob = Cmplx.new
    ob.real = @real+other.real;
    ob.imag = @imag+other.imag;
    return ob
  end

  def subtract(other)
    ob = Cmplx.new;
    ob.real = @real-other.real;
    ob.imag = @imag-other.imag;
    return ob;
  end

  def multiply(other)
    ob = Cmplx.new
    ob.real = (@real * other.real)-(imag*other.imag);
    ob.imag = (@real * other.imag)+(imag*other.real);
    return ob;
  end

  def divide(other)
    t = Cmplx.new;
    ob = Cmplx.new;
    t.imag = -other.imag;
    r =(other.real).abs;
    i =(other.imag).abs;
    d =(r*r)+(i*i);
    ob.real = ((@real * other.real)-(imag*t.imag))/d;
    ob.imag = ((@real * t.imag)+(imag*other.real))/d;
    return ob;
  end

  def disp
    if @imag<0
      puts "#{@real}#{@imag}i"
    else
      puts "#{@real}+#{@imag}i"
    end
  end
end

t1 = Cmplx.new
t2 = Cmplx.new
t3 = Cmplx.new
t4 = Cmplx.new
t5 = Cmplx.new
t6 = Cmplx.new

puts "Enter first number"
t1.read

puts "Enter Second number"
t2.read

print "FIRST NUMBER:"
t1.disp

```

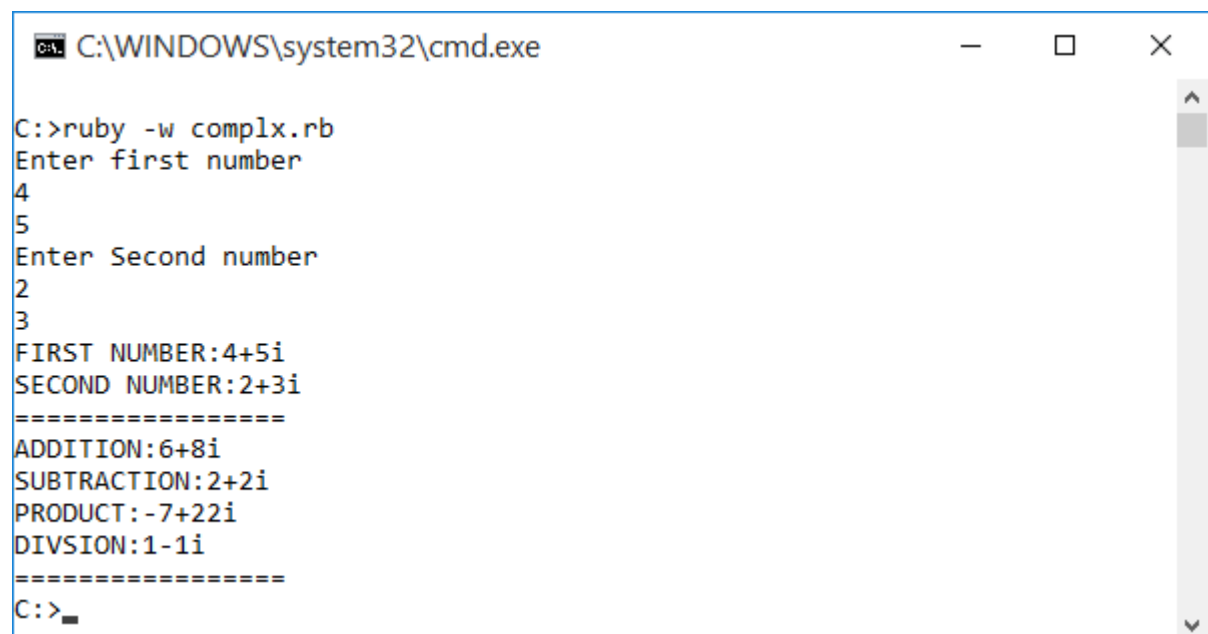
```
print "SECOND NUMBER:"
t2.disp
print "=====\n";

print "ADDITION:"
t3 = t1.add(t2)
t3.disp

print "SUBTRACTION:"
t4 = t1.subtract(t2)
t4.disp

print "PRODUCT:"
t5 = t1.multiply(t2)
t5.disp

print "DIVISION:"
t6 = t1.divide(t2)
t6.disp
print "=====";
```

**OUTPUT:**

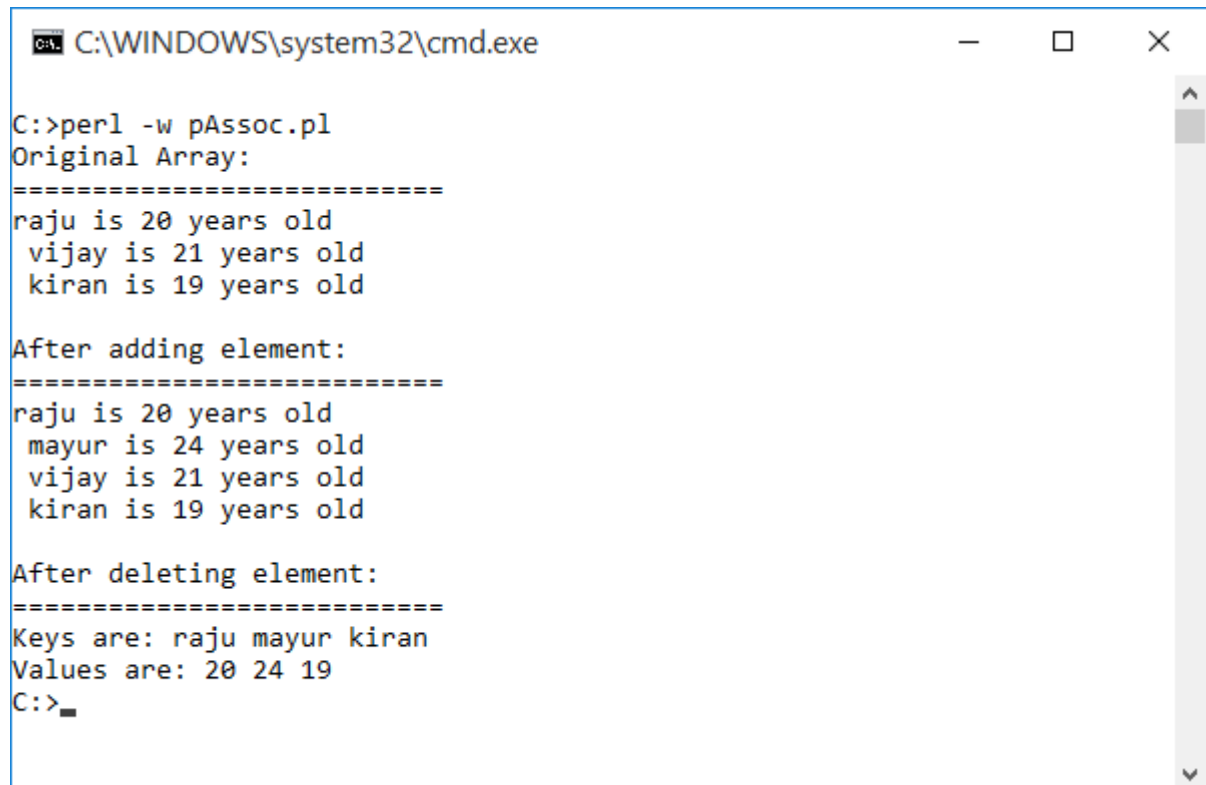
```
C:\WINDOWS\system32\cmd.exe

C:>ruby -w complx.rb
Enter first number
4
5
Enter Second number
2
3
FIRST NUMBER:4+5i
SECOND NUMBER:2+3i
=====
ADDITION:6+8i
SUBTRACTION:2+2i
PRODUCT:-7+22i
DIVISION:1-1i
=====
C:>
```



**15. Write a program which illustrates the use of associative arrays in Perl.****pAssoc.pl**

```
%ages = ('kiran'=>19,'vijay'=>21,'raju'=>20);
print"Original Array:\n";
print"=====\n";
while (($key) = each %ages)
{
    print "$key is $ages{$key} years old\n ";
}
$ages{'mayur'} = 24;
print"\nAfter adding element:\n";
print"=====\n";
while(($key) = each %ages)
{
    print "$key is $ages{$key} years old\n ";
}
delete( $ages{'vijay'});
print"\nAfter deleting element:\n";
print"=====\n";
@all_keys = keys(%ages);
print "Keys are: @all_keys\n";
@all_values = values(%ages);
print "Values are: @all_values\n";
```

**OUTPUT:**


```
C:\WINDOWS\system32\cmd.exe

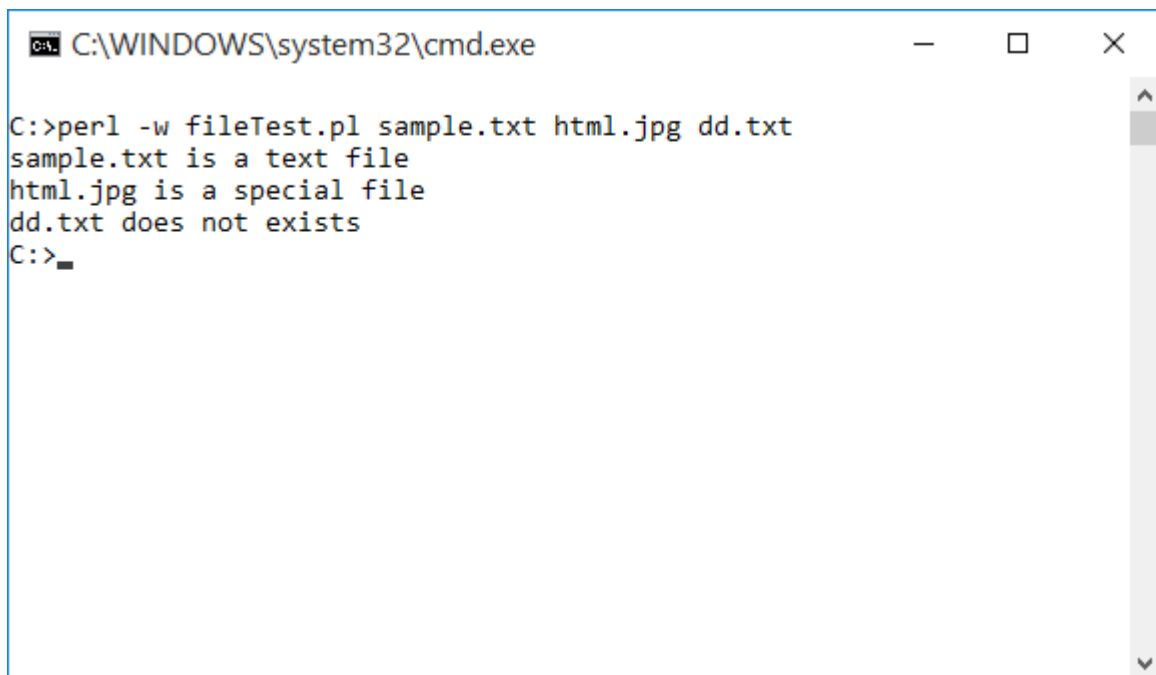
C:>perl -w pAssoc.pl
Original Array:
=====
raju is 20 years old
vijay is 21 years old
kiran is 19 years old

After adding element:
=====
raju is 20 years old
mayur is 24 years old
vijay is 21 years old
kiran is 19 years old

After deleting element:
=====
Keys are: raju mayur kiran
Values are: 20 24 19
C:>
```

**16. Write Perl program takes a set names along the command line and prints whether they are regular files or special files****fileTest.pl**

```
$len = @ARGV;
for ($i=0;$i<$len;$i++)
{
    if(-e $ARGV[$i])
    {
        if(-T $ARGV[$i])
        {
            print "$ARGV[$i] is a text file\n";
        }
        else
        {
            print "$ARGV[$i] is a special file\n";
        }
    }
    else
    {
        print "$ARGV[$i] does not exists";
    }
}
```

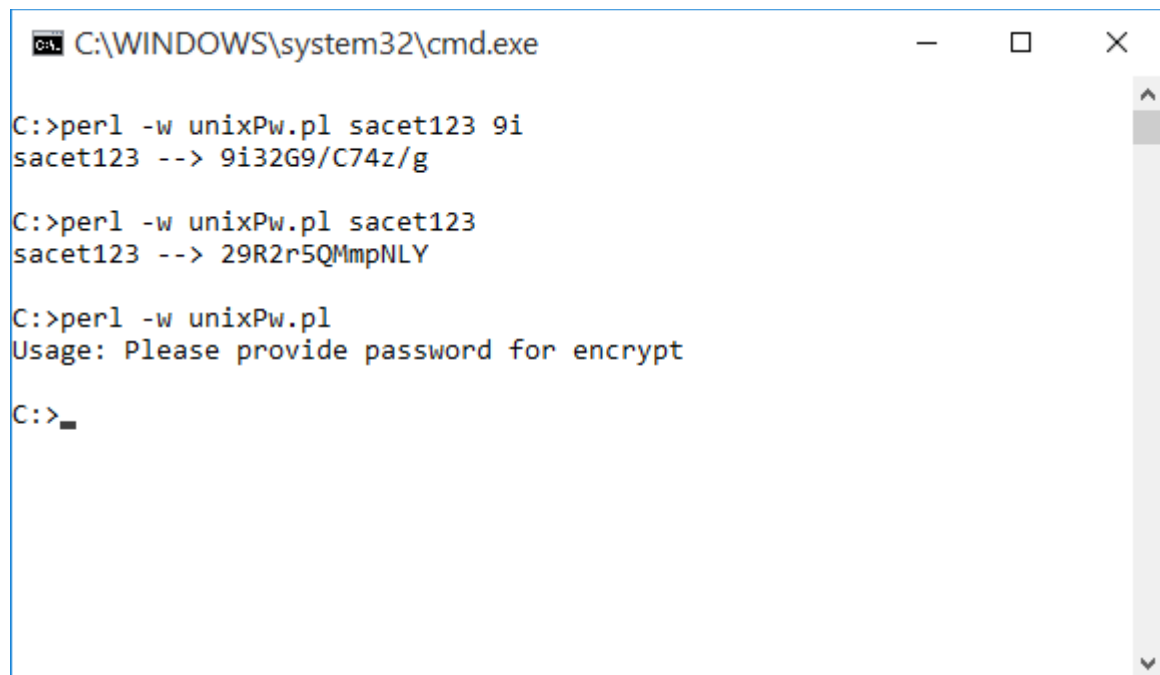
**OUTPUT:**A screenshot of a Windows command prompt window titled "C:\WINDOWS\system32\cmd.exe". The window shows the execution of a Perl script. The command entered is "perl -w fileTest.pl sample.txt html.jpg dd.txt". The output of the script is displayed on the next three lines: "sample.txt is a text file", "html.jpg is a special file", and "dd.txt does not exists". The prompt "C:>" is visible at the end of the output lines.

```
C:\WINDOWS\system32\cmd.exe

C:>perl -w fileTest.pl sample.txt html.jpg dd.txt
sample.txt is a text file
html.jpg is a special file
dd.txt does not exists
C:>
```

**17. Write a Perl program to implement UNIX 'passwd' program****unixPw.pl**

```
my $salt="";
my $encrypted="";
my $password="";
my $use = 'Usage: Please provide password for encrypt';
my @saltchars=('.', '/', 0..9, 'A'..'Z', 'a'..'z');
my $args=@ARGV;
if ( $args < 1 || $args > 2 )
{
    print "$use\n";
    exit;
}
$password=$ARGV[0];
if( $args == 1 )
{
    $salt = join("", @saltchars[rand(64),rand(64)]);
}
else
{
    $salt=$ARGV[1];
}
$encrypted=crypt($password,$salt);
print "$password --> $encrypted\n";
```

**OUTPUT:**

The screenshot shows a Windows command prompt window titled "C:\WINDOWS\system32\cmd.exe". The user has entered three commands to test the Perl script:

```
C:>perl -w unixPw.pl sacet123 9i
sacet123 --> 9i32G9/C74z/g

C:>perl -w unixPw.pl sacet123
sacet123 --> 29R2r5QMmpNLY

C:>perl -w unixPw.pl
Usage: Please provide password for encrypt

C:>
```

**18. An example Perl program to connect to a MySQL Database table and executing simple commands.**

**Note:** Create the following table in MySQL and insert some data in to the table.

```
students table
create table students
(
    roll varchar(3) not null,
    name varchar(3) not null,
    branch varchar(3) not null
);
```

**dbConn.pl**

```
use DBI;

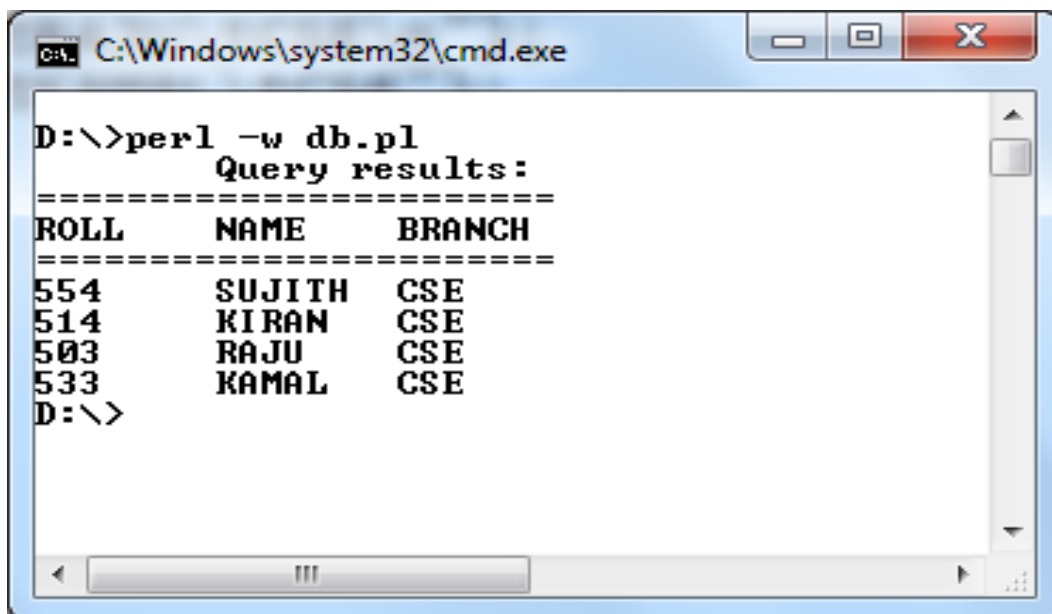
#definition of variables
$db="test";
$host="localhost";
$user="root";
$password="";

#connect to MySQL database
my $dbh = DBI->connect ("DBI:mysql:database=$db:host=$host",$user,$password) or die "Can't connect to
database: $DBI::errstr\n";

#prepare the query
my $sth = $dbh->prepare( "SELECT *FROM students");

#execute the query
$sth->execute();

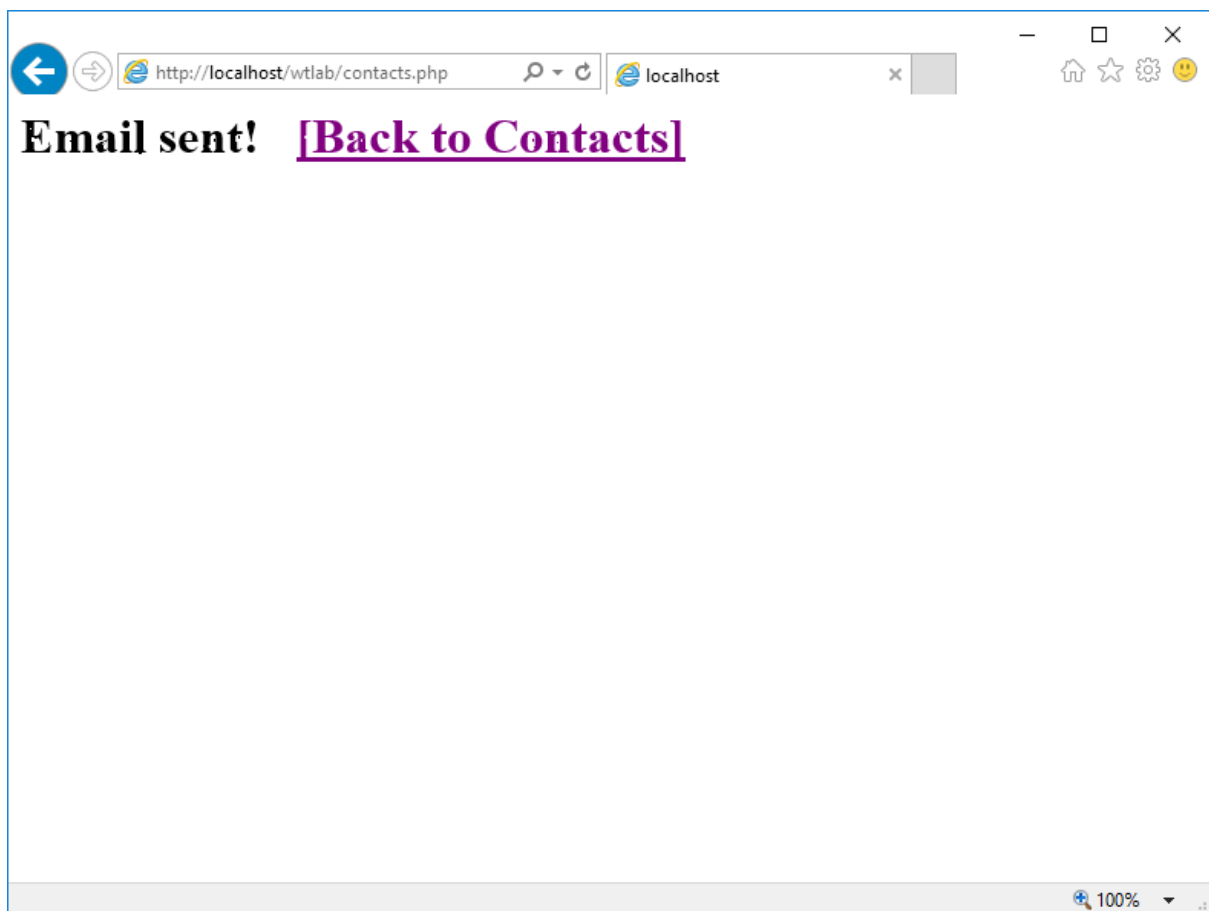
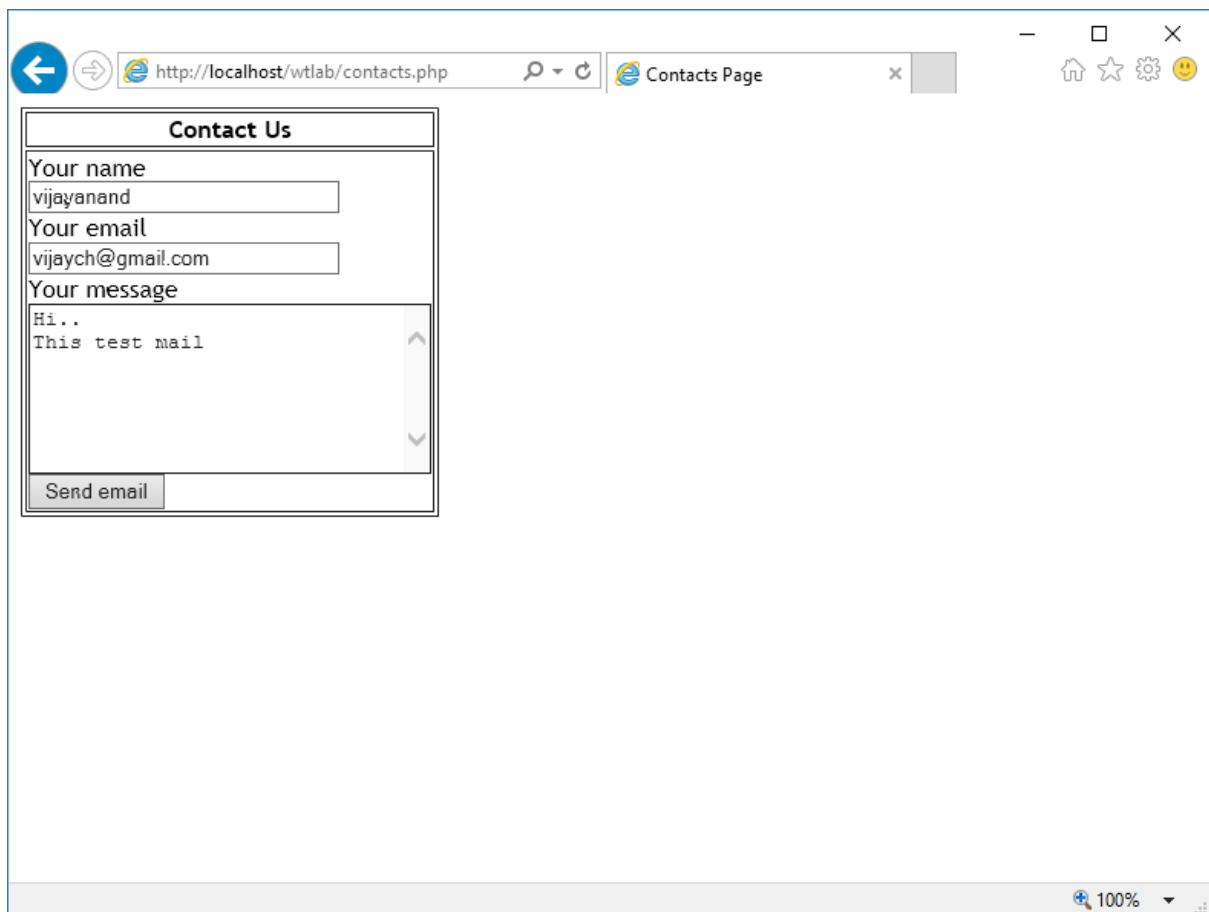
## Retrieve the results of a row of data and print
print "\tQuery results:\n=====\n";
print("ROLL\tNAME\tBRANCH\n=====\n");
while (my @row = $sth->fetchrow_array())
{
    print "@row\n";
}
warn "Problem in retrieving results", $sth->errstr( ), "\n" if $sth->err();
exit;
```

**OUTPUT:**


```
C:\Windows\system32\cmd.exe

D:\>perl -w db.pl
Query results:
=====
ROLL    NAME    BRANCH
=====
554     SUJITH  CSE
514     KIRAN   CSE
503     RAJU    CSE
533     KAMAL   CSE
D:\>
```





**20. User Authentication:**

a) Assume four users user1, user2, user3 and user4 having the passwords pwd1,pwd2,pwd3 and pwd4 respectively. Write a PHP for doing the following.

1. Create a Cookie and add these four user ID's and passwords to this Cookie.
2. Read the user id and passwords entered in the Login form (week1) and authenticate with the values (user id and passwords) available in the cookies.

If he is a valid user (i.e., user-name and password match) you should welcome him by name (user-name) else you should display "You are not an authenticated user"

**login.html**

```
<html>
<head>
    <title>Login Page</title>
</head>
<body>
<center>
    <h3> Login Page</h3>
    <form name="f1" action="setcookie.php" method="post">
    <table frame="border">
        <tr>
            <td>User</td>
            <td><input type="text" name="user" size="20" value=""/></td>
        </tr>
        <tr>
            <td>Password</td>
            <td><input type="password" name="pwd" size="20" value=""/></td>
        </tr>
        <tr>
            <td align="center" colspan="2"><input type="submit" value="Sign in"/>
            <input type="reset" /></td>
        </tr>
    </table>
</form>
</body></center>
</html>
```

**setcookie.php**

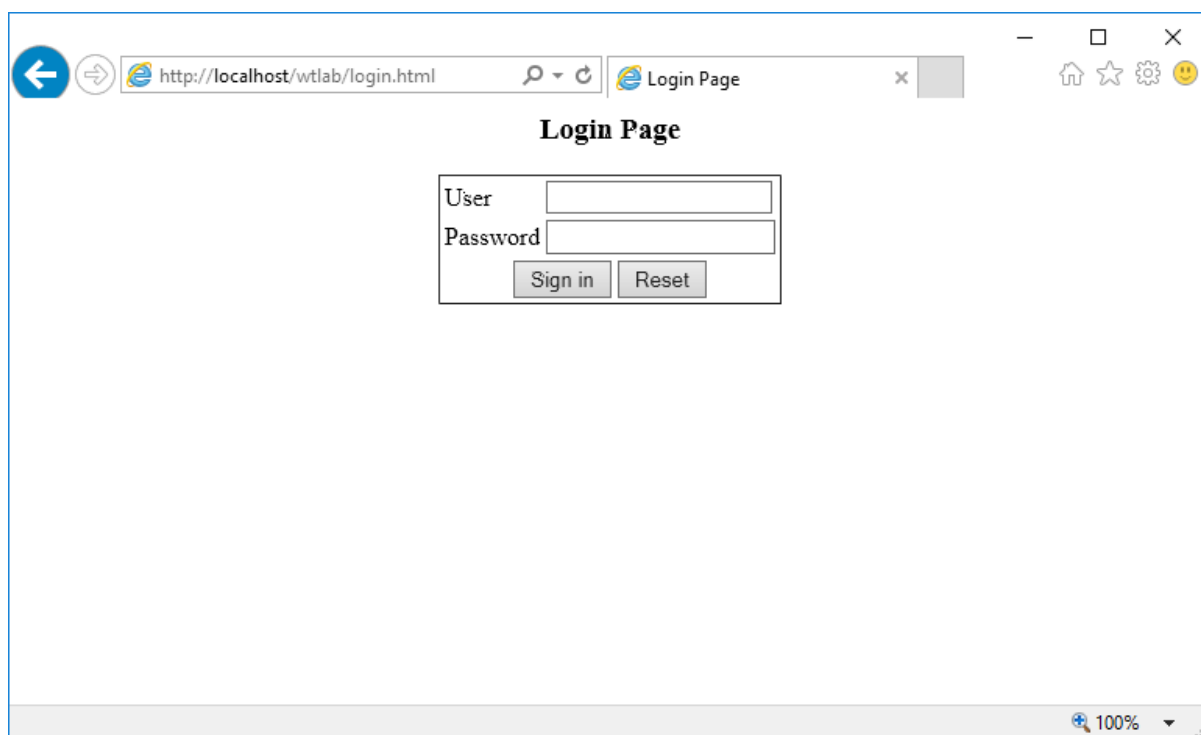
```
<html>
<head>
    <title>Set Cookie</title>
</head>
<body>
    <?php
        $user = $_POST['user'];
        $pwd = $_POST['pwd'];
        setcookie("user",$user,time()+3600*2);
        setcookie("pwd",$pwd,time()+3600*2);
        echo "<h3>The Cookie Added...</h3>";
    ?>
</body>
</html>
```

**getcookie.php**

```
<html>
<head>
    <title>Get Cookie</title>
</head>
<body>
    <?php

        $user = $_COOKIE['user'];
        $pwd = $_COOKIE['pwd'];
        if($user=="user1")
        {
            if($pwd == "pwd1")
                echo "<h2>Welcome User1 </h2>";
            else
                echo "<h2>You are not an authenticated user.</h2>";
        }
        elseif($user=="user2")
        {
            if($pwd == "pwd2")
                echo "<h2>Welcome User2</h2>";
            else
                echo "<h2>You are not an authenticated user.</h2>";
        }
        elseif($user=="user3")
        {
            if($pwd == "pwd3")
                echo "<h2>Welcome User3</h2>";
            else
                echo "<h2>You are not an authenticated user.</h2>";
        }
        elseif($user=="user4")
        {
            if($pwd == "pwd4")
                echo "<h2>Welcome User4</h2>";
            else
                echo "<h2>You are not an authenticated user.</h2>";
        }
        else
            echo "<h2>Invalid Username/Password</h2>";
    ?>
</body>
</html>
```

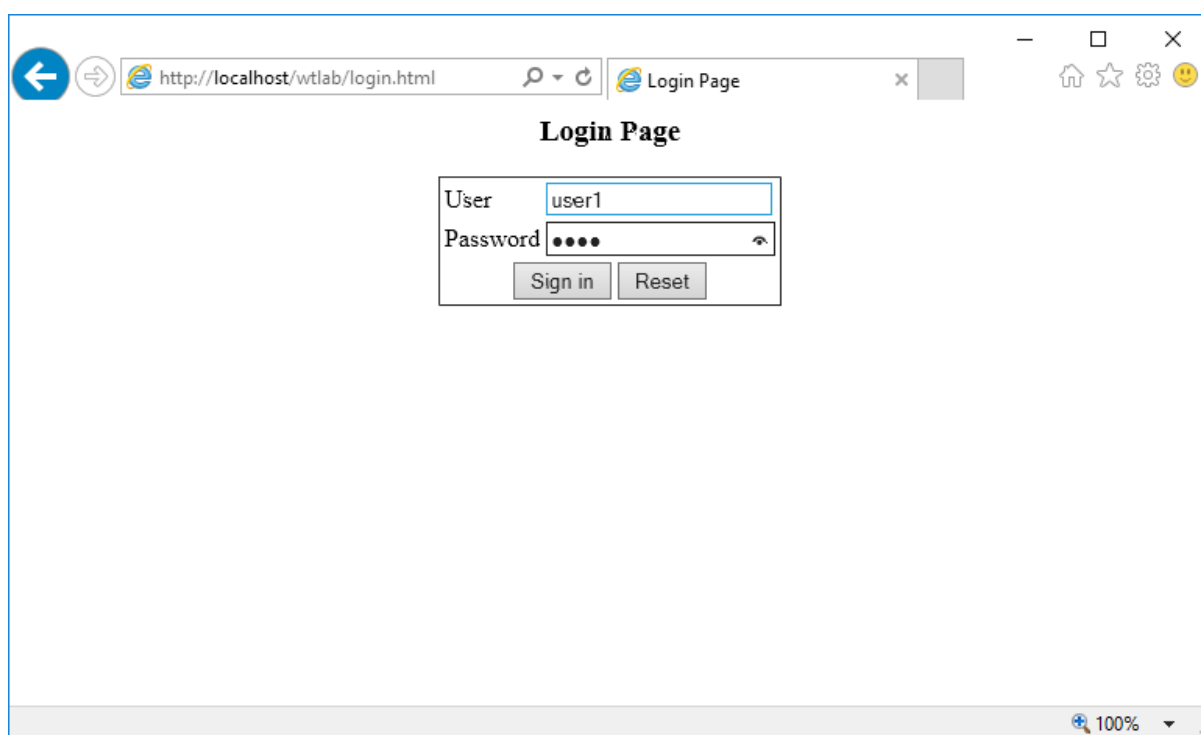


**OUTPUT 1 for Valid User:**

Browser window showing the Login Page at <http://localhost/wtlab/login.html>. The page title is "Login Page".

The login form contains the following fields and buttons:

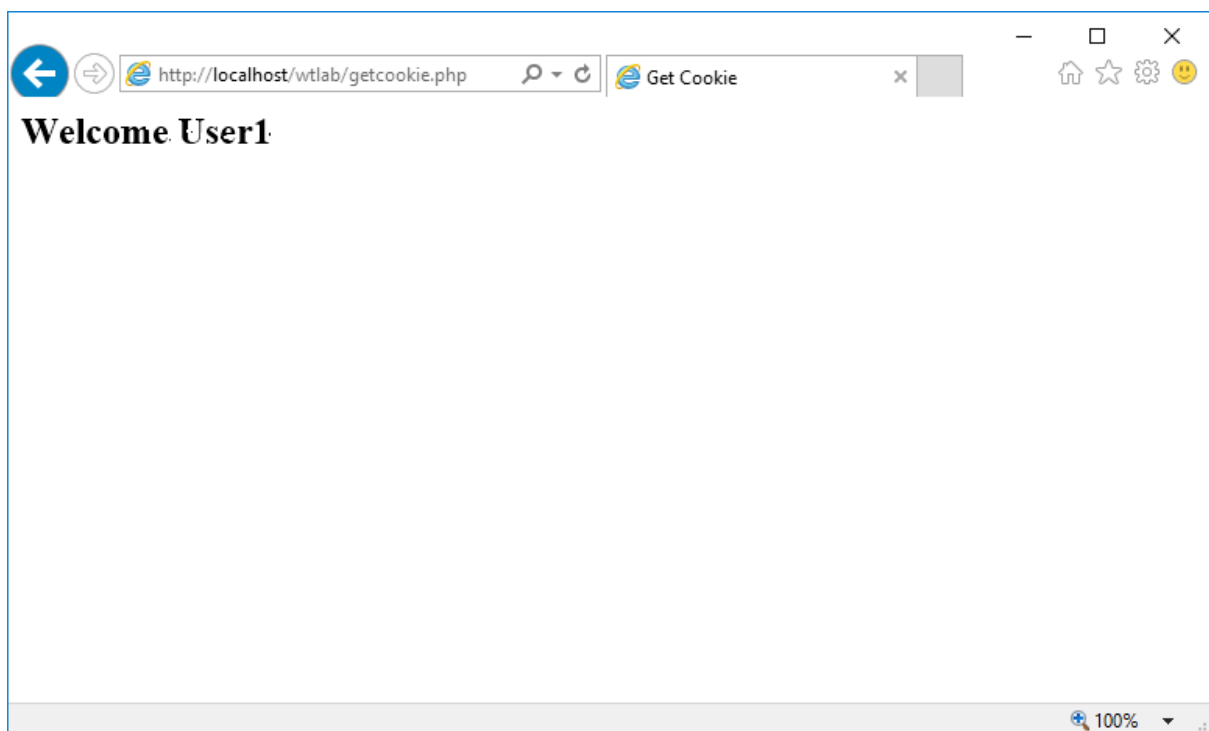
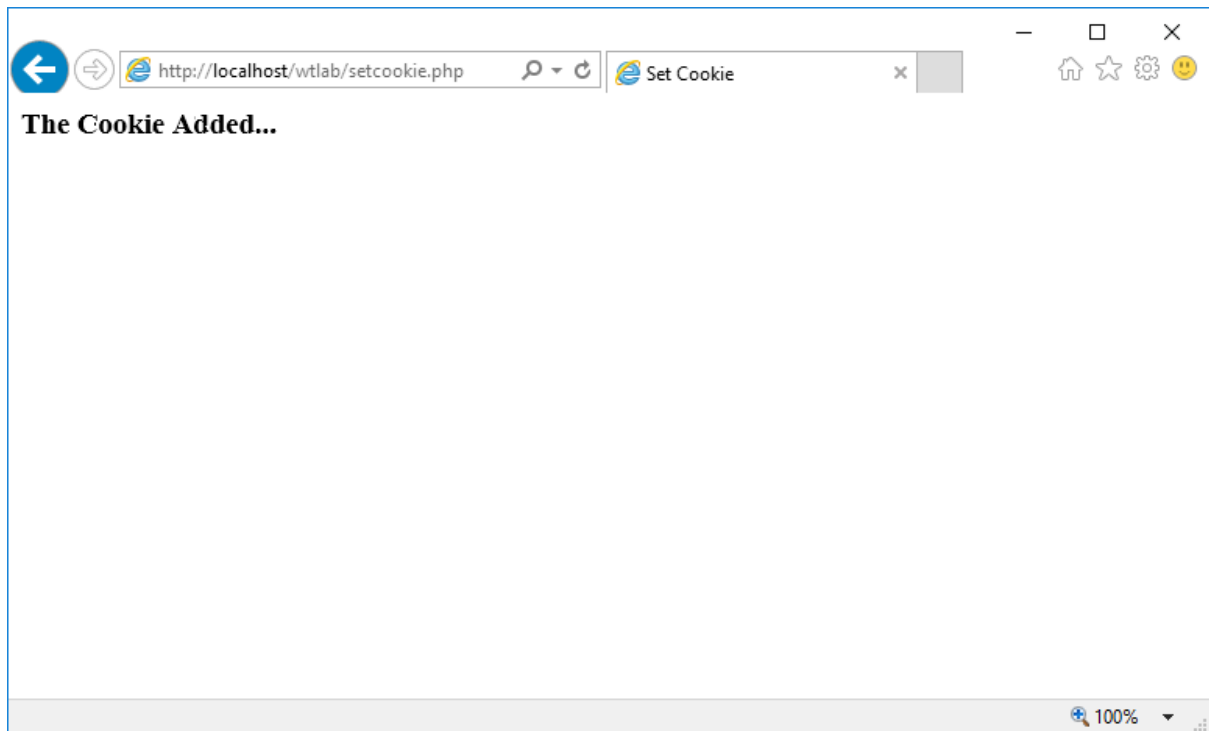
- User:
- Password:
- Sign in
- Reset

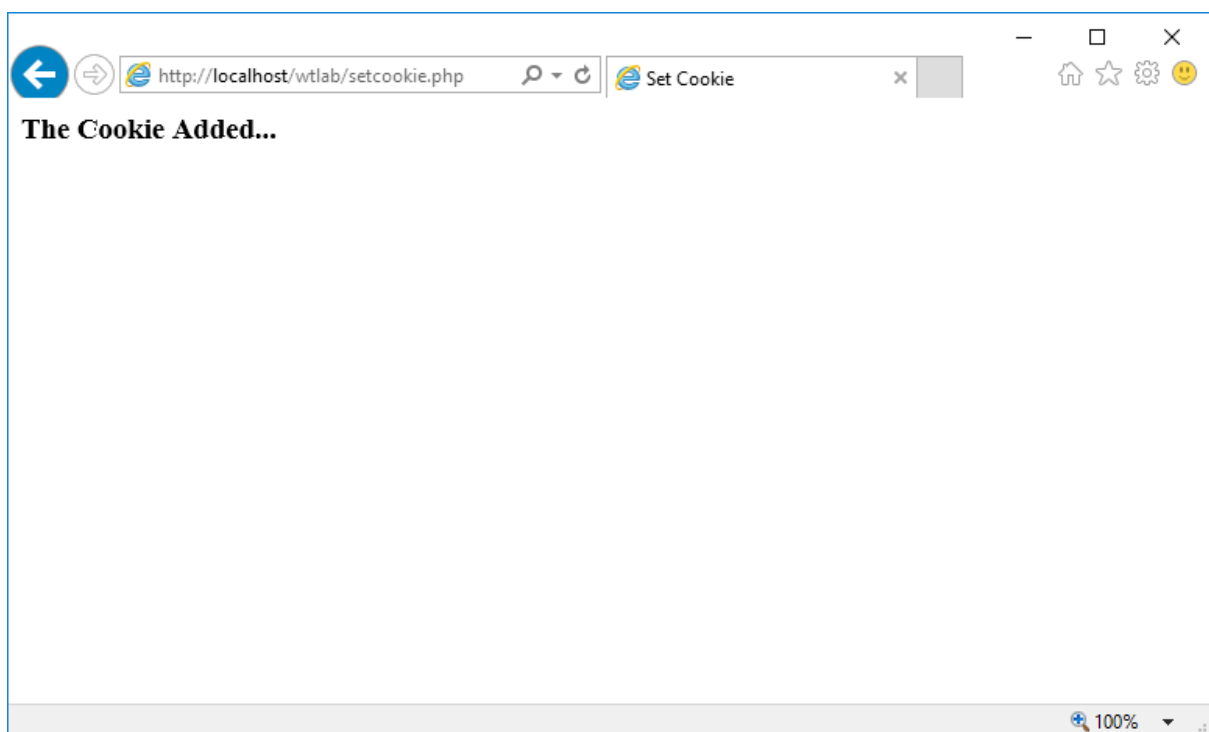
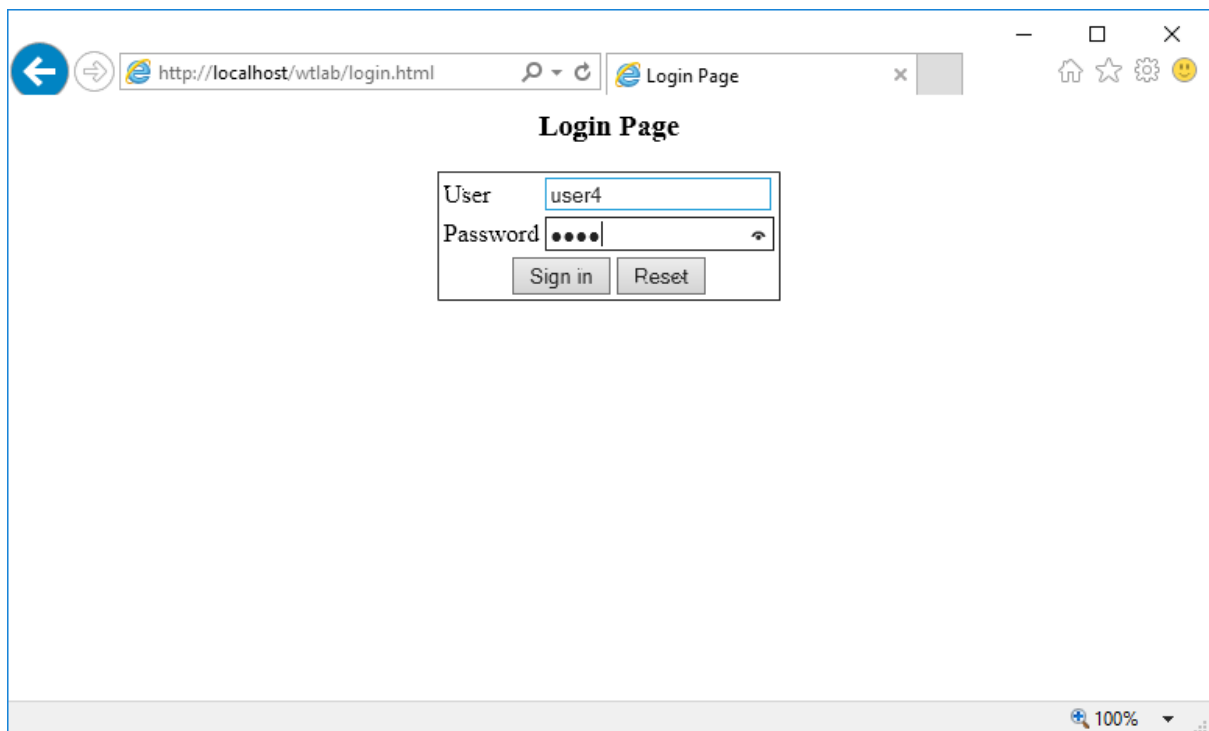


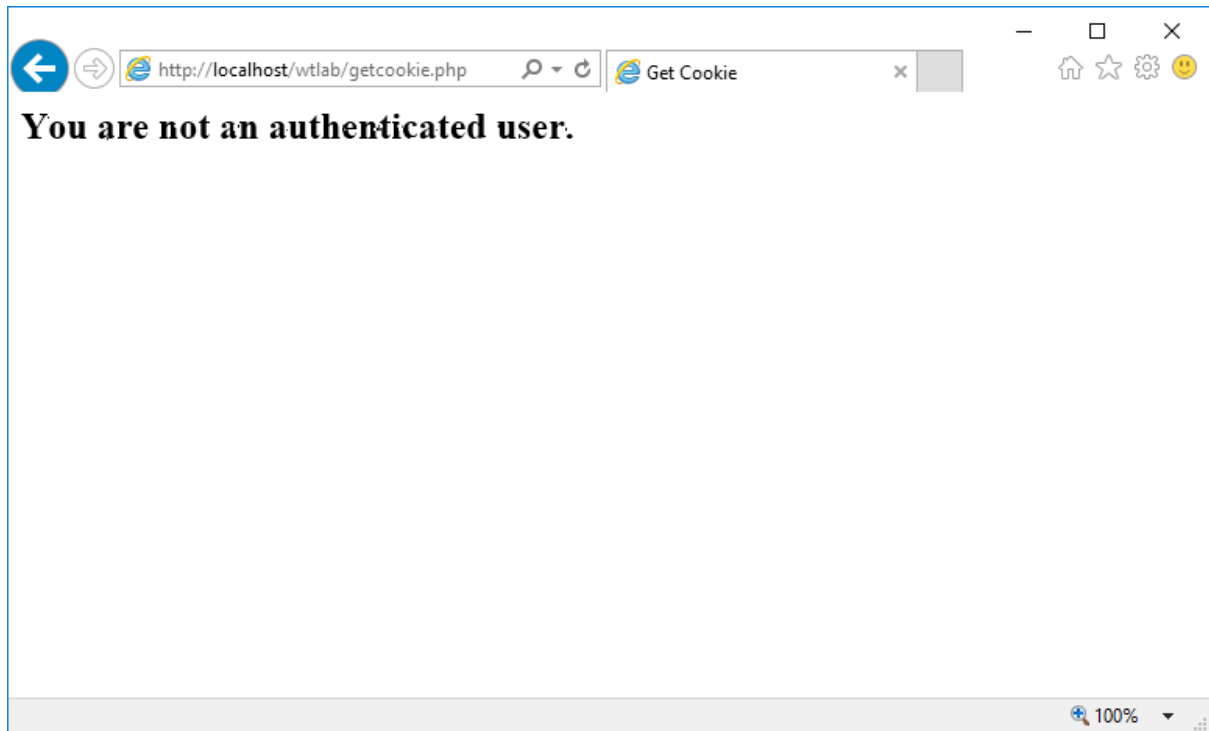
Browser window showing the Login Page at <http://localhost/wtlab/login.html>. The page title is "Login Page".

The login form contains the following fields and buttons:

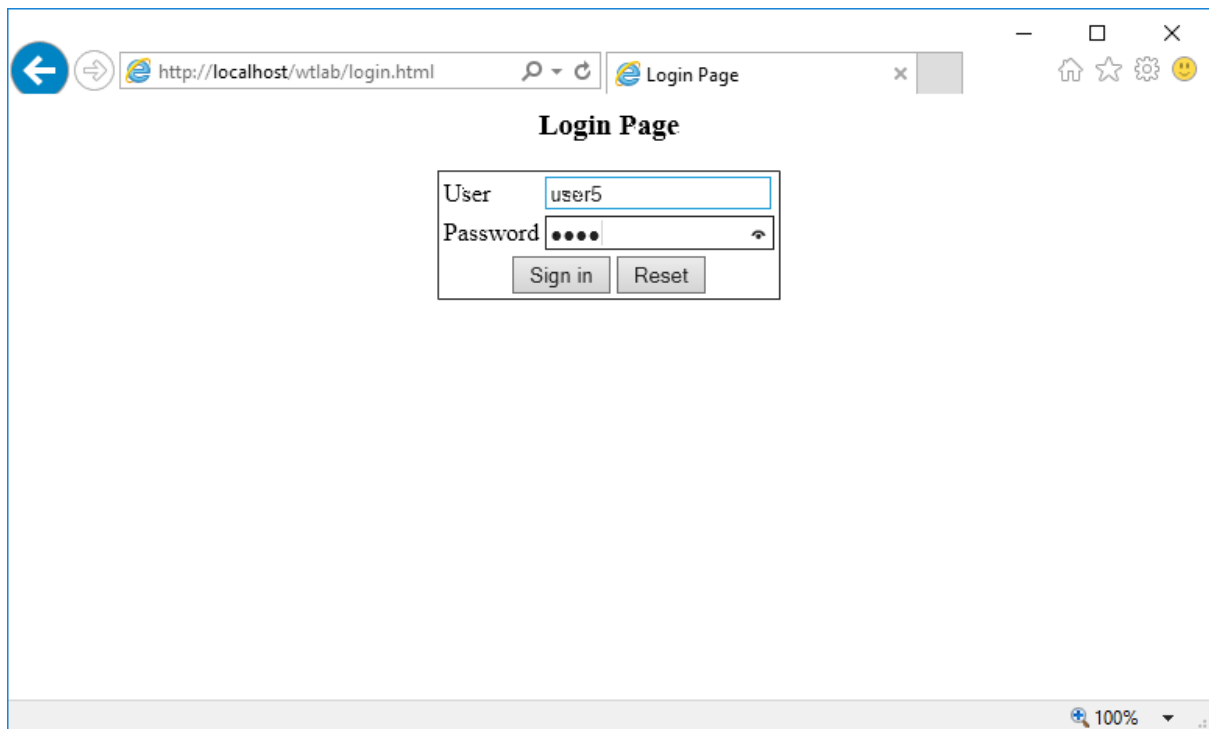
- User:
- Password:
- Sign in
- Reset

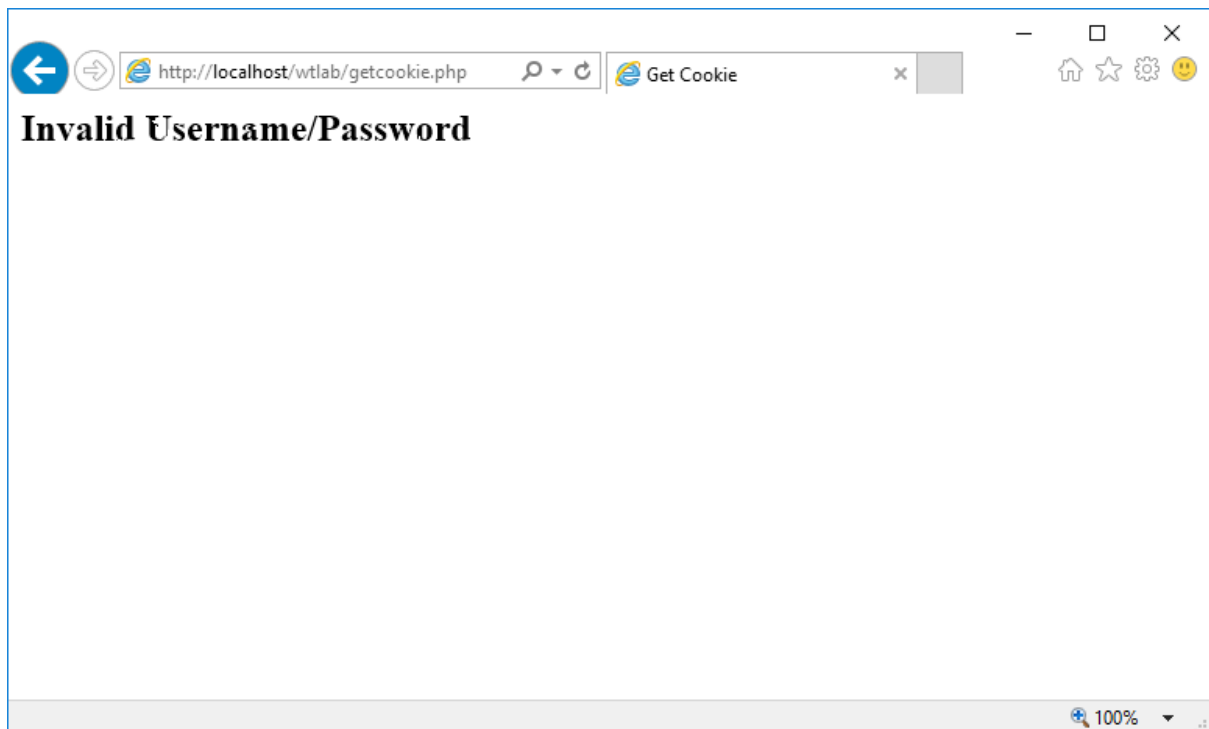
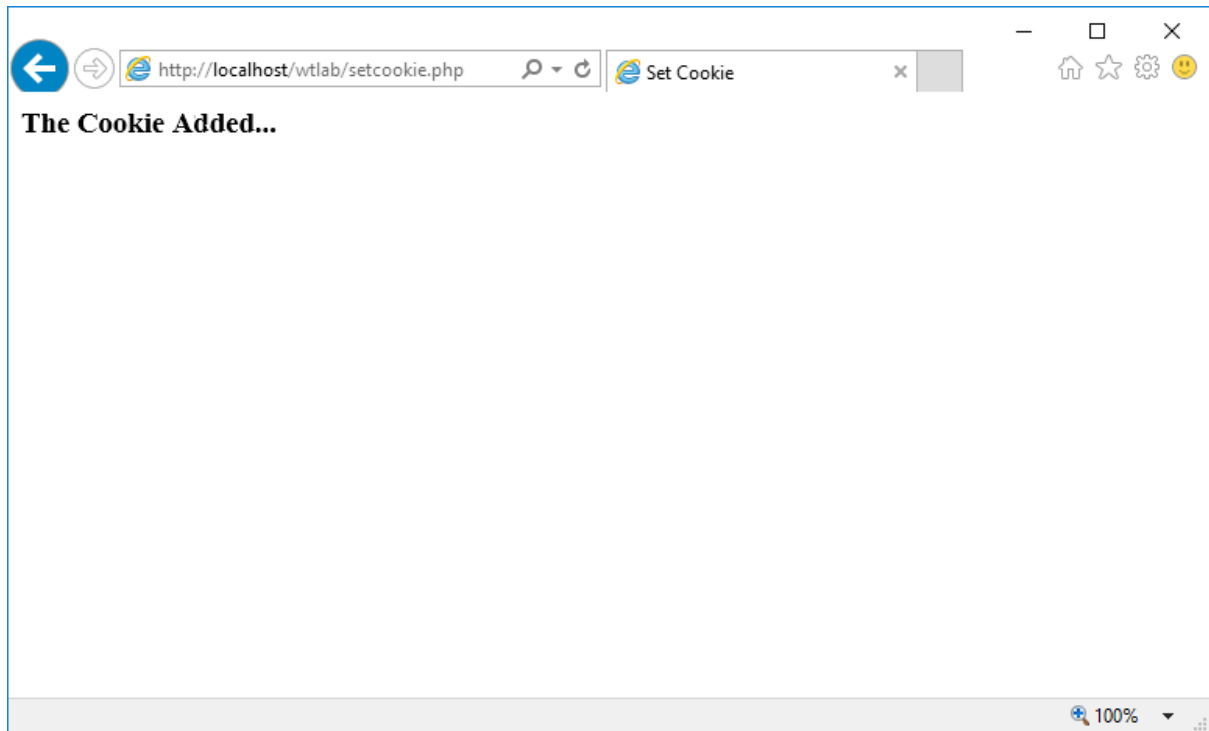


**OUTPUT 2 for Invalid User:**



**OUTPUT 3 for Non-existing user:**





**b) AIM: Use init-parameters to do the above task. Store the user-names and passwords in the “users.ini” file and access them in php page by using the “parse\_ini\_file()” method.**

**mylogin.html**

```
<html>
<head>
    <title>Login Page</title>
</head>
<body>
<center>
    <h3> Login Page</h3>
    <form name="f1" action="initparam.php" method="post">
        <table frame="border">
            <tr>
                <td>User</td>
                <td><input type="text" name="user" size="20" value=""/></td>
            </tr>
            <tr>
                <td>Password</td>
                <td><input type="password" name="pwd" size="20" value=""/></td>
            </tr>
            <tr>
                <td align="center" colspan="2"><input type="submit" value="Sign in"/>
                    <input type="reset" /></td>
            </tr>
        </table>
    </form>
</body></center>
</html>
```

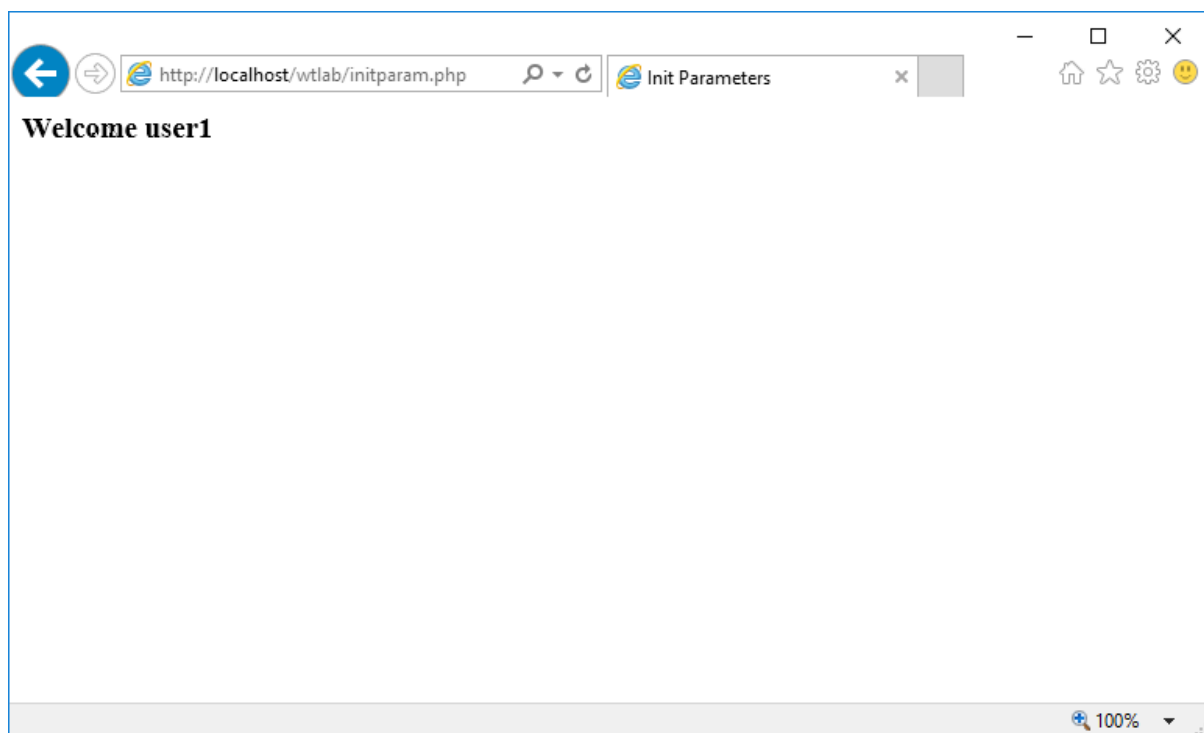
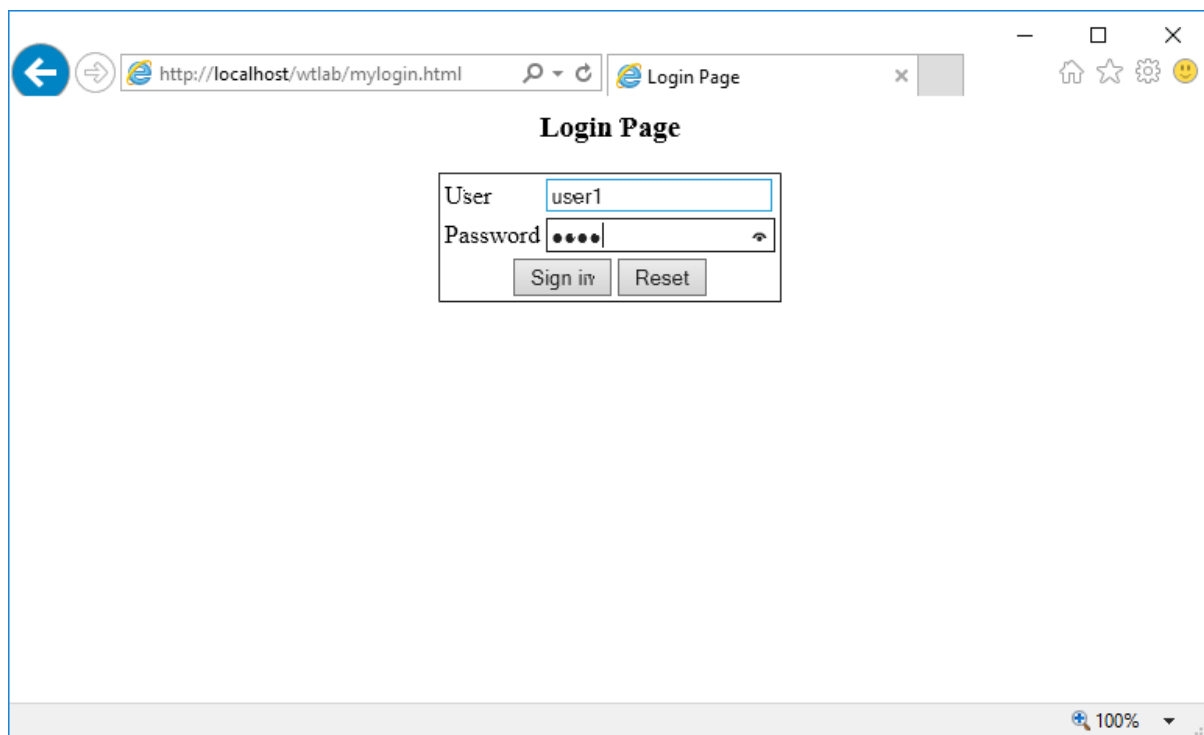
**users.ini**

;This is a users .ini file

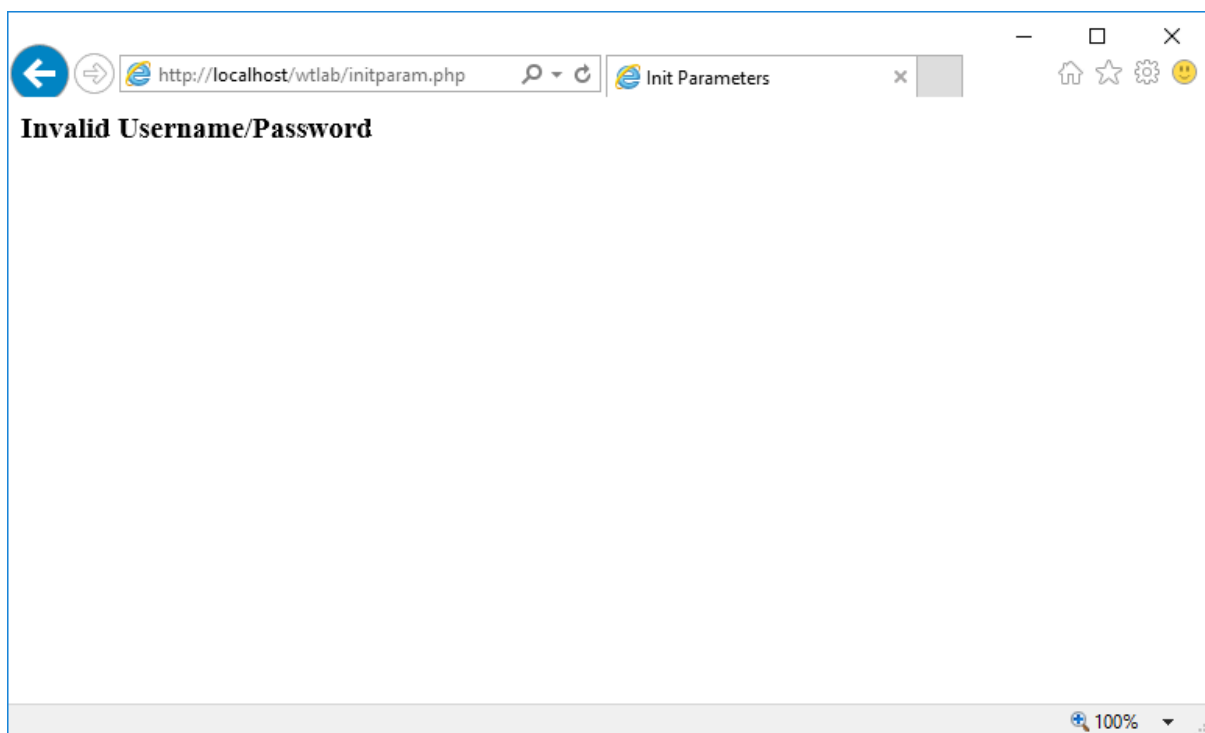
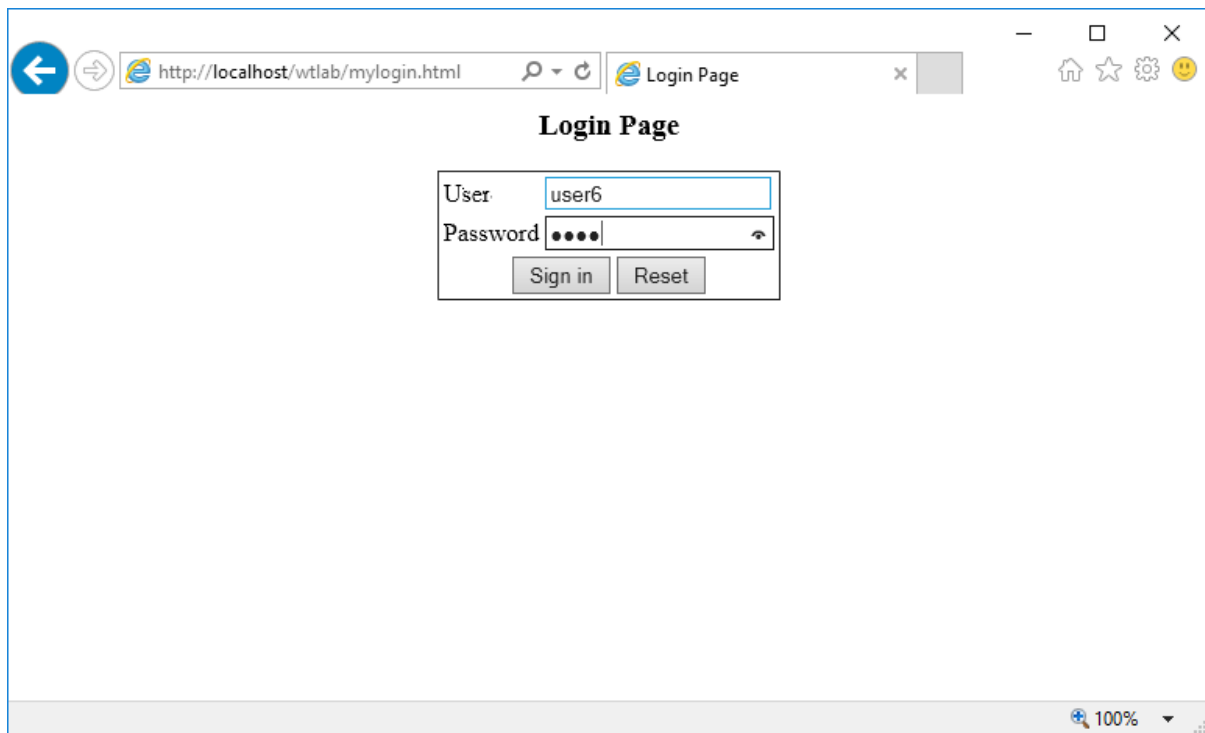
```
[first_section]
u1=user1
p1=pwd1
```

**initparam.php**

```
<html>
<head>
    <title>Init Parameters</title>
</head>
<body>
<?php
    $user = $_POST['user'];
    $pwd = $_POST['pwd'];
    $temp = parse_ini_file("users.ini");
    foreach($temp as $value)
    {
        $users[] = $value;
    }
    if($user==$users[$i])
    {
        if($pwd==$users[$i+1])
            echo "<h3>Welcome $users[$i]</h3>";
        else
            echo "<h3>You are not an authenticated user</h3>";
    }
    else
        echo "<h3>Invalid Username/Password</h3>";
    }
?>
</body>
</html>
```

**OUTPUT for Valid user:**

**OUTPUT for Invalid user:**





**21. Example PHP program for registering users of a website and login.****registration1 table:**

```
CREATE TABLE registration1
(
    uname varchar(25) NOT NULL,
    pass varchar(25) NOT NULL,
    email varchar(25) NOT NULL,
    phno bigint(10) NOT NULL,
    gender varchar(6) NOT NULL,
    dob char(10) NOT NULL,
    languages varchar(25) NOT NULL,
    address varchar(75) NOT NULL,
    UNIQUE KEY (uname)
);
```

**A) Registration: Add the following code to registration.html in <head> section:**

```
<script language="javascript">
    function validate()
    {
        var nam = document.f1.uname.value;
        if(nam=="")
        {
            alert("Please enter name");
            document.f1.uname.focus();
            return false;
        }

        var pwd = document.f1.pass.value;
        if(pwd=="")
        {
            alert("Please enter Password");
            document.f1.pass.focus();
            return false;
        }

        var email = document.f1.email.value;
        if(email=="")
        {
            alert("Please enter youe email");
            document.f1.email.focus();
            return false;
        }

        var phno = document.f1.phone.value;
        len=phno.length
        if(phno==" || len != 10)
        {
            alert("Please enter phno or should be strictly 10 digits");
            document.f1.phone.focus();
            return false;
        }

        var genders = document.getElementsByName("gen");
        var selectedGender="";
        for(var i = 0; i < genders.length; i++)
        {
            if(genders[i].checked == true)
                selectedGender = genders[i].value;
        }
        if(selectedGender=="")
        {
            alert("Please select your gender");
            document.f1.gen.focus();
            return false;
        }

        var day = document.f1.day.value;
```

```
var month = document.f1.month.value;
var year = document.f1.year.value;
if(day=="day" || month=="month" || year=="year")
{
    alert("Please select your DOB");
    document.f1.day.focus();
    return false;
}

var languages = document.getElementsByName("lang[]");
var selected = new Array();
var j=0;
for(var i = 0; i < languages.length; i++)
{
    if(languages[i].checked == true)
        selected[j++] = languages[i].value;
}
var len = selected.length;
if(len==0)
{
    alert("Please Choose atleast one language");

    document.f1.lang.focus();
    return false;
}

var addr = document.f1.addr.value;
if(addr=="")
{
    alert("Please enter your address");

    document.f1.addr.focus();
    return false;
}
}
```

</script>

**Then, Modify the <form> tag attributes:**

```
<form name="f1" action="insert.php" method="post" onsubmit="javascript:return validate()">
```

#### insert.php

```
<?php
$conn = mysql_connect("localhost","root","") or die("Failed to Connect:".mysql_error());
mysql_select_db("test",$conn) or die("No Database existing:".mysql_error());
if(isset($_POST['uname']))
{
    $uname=$_POST['uname'];
    $pass=$_POST['pass'];
    $email=$_POST['email'];
    $phno=(float)$_POST['phone'];
    $gender=$_POST['gen'];
    $day=(int)$_POST['day'];
    $month=(int)$_POST['month'];
    $year=(int)$_POST['year'];
    $dob = "$day-$month-$year";
    $str=$_POST['lang'];
    $lang="";
    foreach ($str as $val)
    {
        $lang = $lang." ".$val;}
    $text=$_POST['addr'];
    $addr = str_replace("\n","<br>",$text);
    $query = "INSERT INTO registration1 VALUES ('$uname', '$pass', '$email', '$phno', '$gender',
    '$dob', '$lang', '$addr')";
    $res = mysql_query($query);
    if($res)
    {
        $script = "<script>alert('User Registration Successful');";
    }
}
```

```

$script .= "document.writeln('<center><h4><u>User Details</u></h1>');";
$script .= "document.writeln('Your username is:<b> $uname</b><br/>');";
$script .= "document.writeln('Your password is:<b> $pass</b></center>');";
$script .= "document.writeln('<h4 align=right><a href=catalogue.html>[View Books]
</a> </h4>');</script>";
echo $script;
}
else
echo "<script>alert('User Registration Failed'); window.location = 'registration.html';
</script>";
?>
}

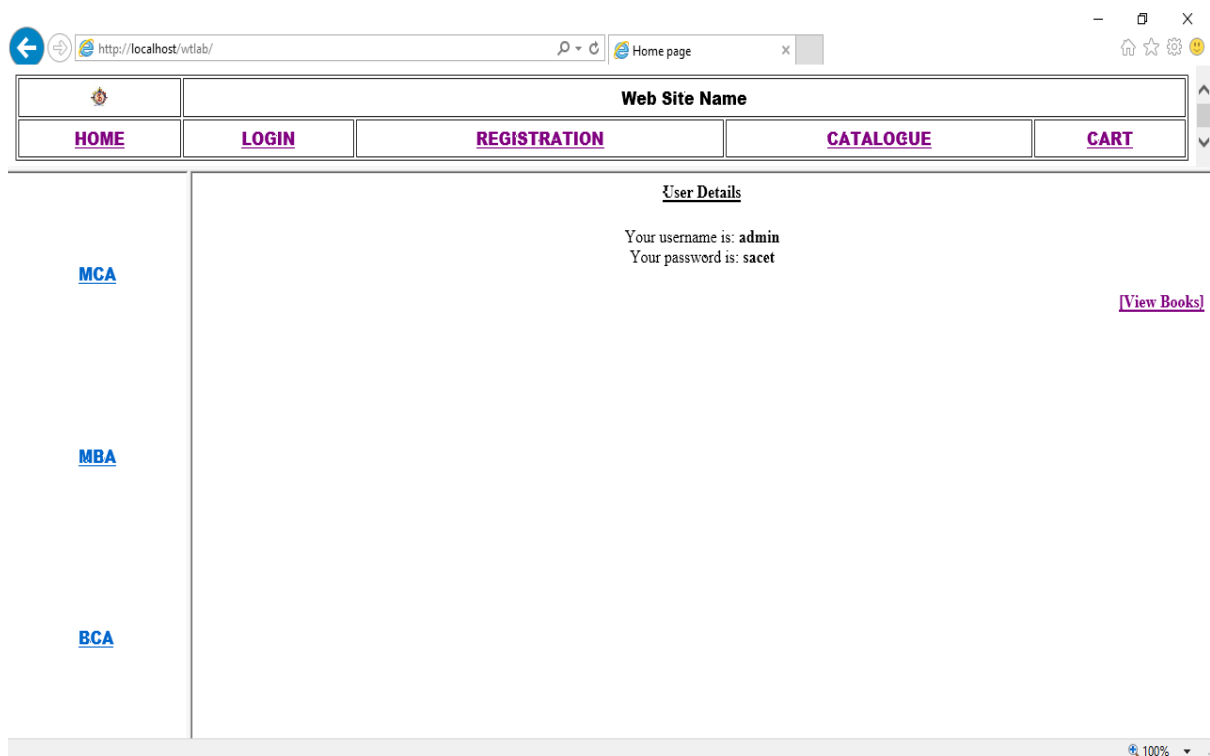
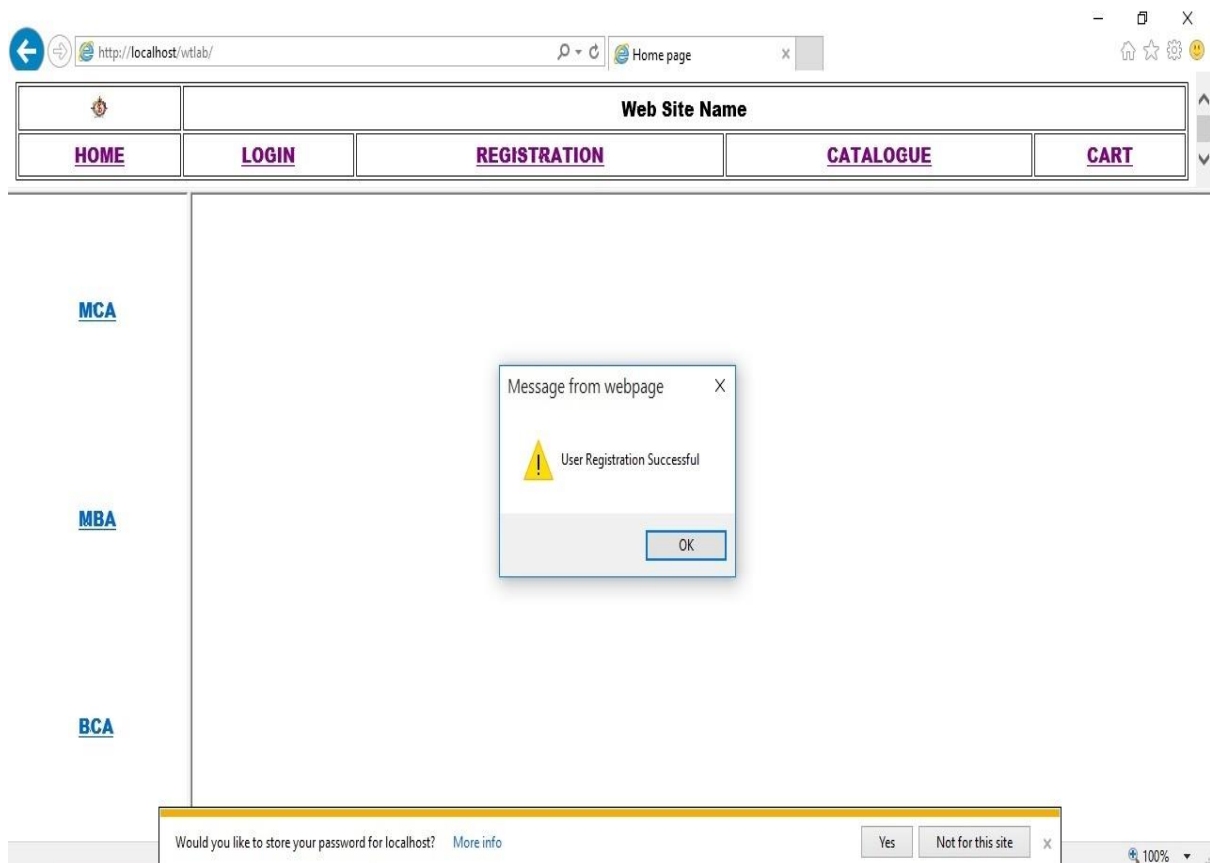
```

## OUTPUT





The screenshot shows a web browser window with the address bar displaying 'http://localhost/vt/lab/'. The website has a navigation bar with links: HOME, LOGIN, REGISTRATION, CATALOGUE, and CART. The REGISTRATION PAGE is displayed, featuring a form with the following fields:

- NAME: admin
- PASSWORD: \*\*\*\*\*
- E-MAIL ID: admin@gmail.com
- PHONE NUMBER: 9876543210
- GENDER: ☒ MALE ☐ FEMALE
- DATE OF BIRTH: 15 JUNE 1986
- LANGUAGES KNOWN: ☒ ENGLISH ☒ TELUGU ☐ HINDI ☐ TAMIL
- ADDRESS: vetapalem, chirala, prakasam

The form has SUBMIT and RESET buttons at the bottom.



Browser: http://localhost/wtlib/ Home page

Web Site Name				
<a href="#">HOME</a>	<a href="#">LOGIN</a>	<a href="#">REGISTRATION</a>	<a href="#">CATALOGUE</a>	<a href="#">CART</a>
<a href="#">MCA</a>		Book: XML Bible Author: Winston Publication: Wiley	\$40.5	<a href="#">ADD TO CART</a>
		Book: AI Author: S. Russel Publication: Princeton hall	\$63	<a href="#">ADD TO CART</a>
<a href="#">MBA</a>		Book: Java 2 Author: Watston Publication: BPB publications	\$35.5	<a href="#">ADD TO CART</a>
<a href="#">BCA</a>		Book: HTML in 24 hours Author: Sam Peter Publication: Sam publications	\$100	<a href="#">ADD TO CART</a>

http://localhost/wtlib/catalogue.html 100%

**B) Login Verification****login.html**

```

<html>
  <head>
    <title> Sign-in Page </title>
    <script language="javascript">
      function validate()
      {
        var nam = document.f1.uname.value;
        if(nam=="")
        {
          alert("Please enter name");
          document.f1.uname.focus;
          return false;
        }
        var pwd = document.f1.pass.value;
        if(pwd=="")
        {
          alert("Please enter Password");
          document.f1.pass.focus;
          return false;
        }
      }
    </script>
  </head>
  <body>
    <br/><br/><br/>
    <center>
      <form name="f1" action="validation.php" method="post" onsubmit="javascript:return
validate()">
        <table border="3" cellpadding="0" cellspacing="0">
          <tr>
            <td>
              <table cellspacing="10">
                <tr>
                  <td colspan="2" align="center"><h2><u>Login Page</u></h2></td>
                </tr>
                <tr>
                  <td> User Name</td>
                  <td><input type="text" name="uname" size="15"></td>
                </tr>
                <tr>
                  <td> Password</td>
                  <td><input type="password" name="pass" size="15"></td>
                </tr>
                <tr>
                  <td align="center"><input type="submit" value="Sign in"></td>
                  <td align="center"><input type="reset" value="Clear"></td>
                </tr>
              </table>
            </td>
          </tr>
        </table>
      </form>
    </center>
  </body>
</html>

```

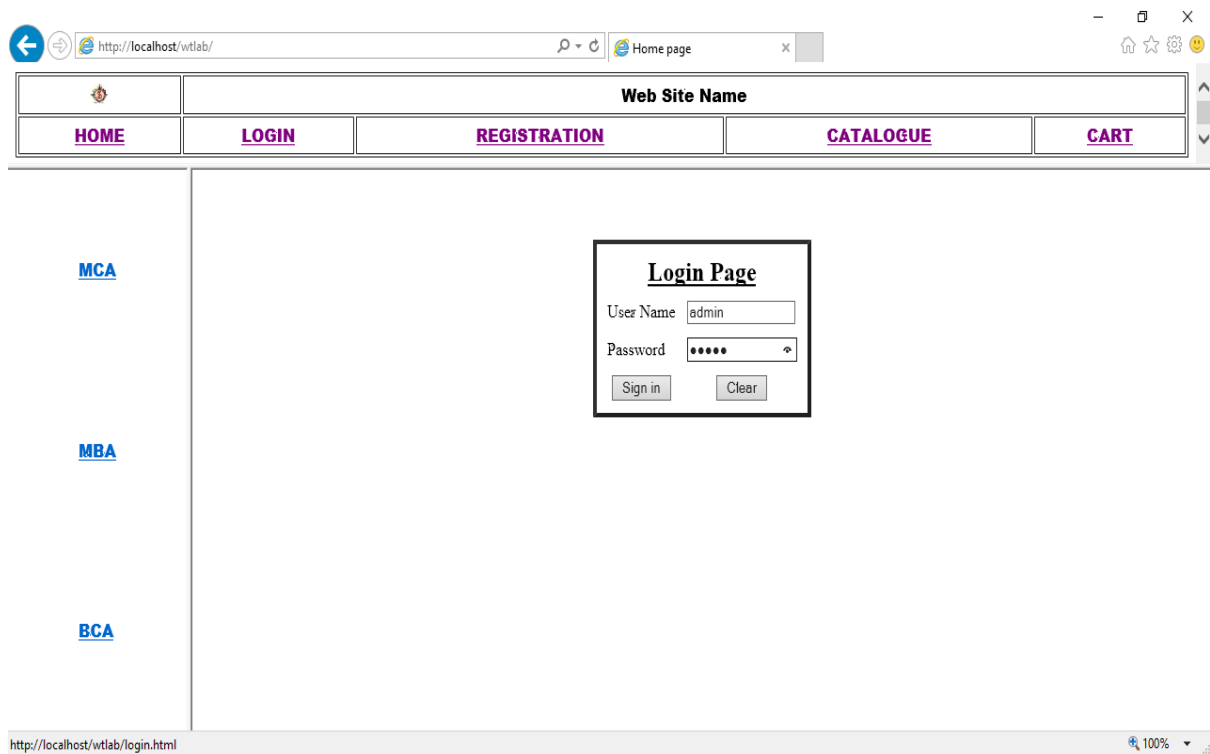
**validation.php**

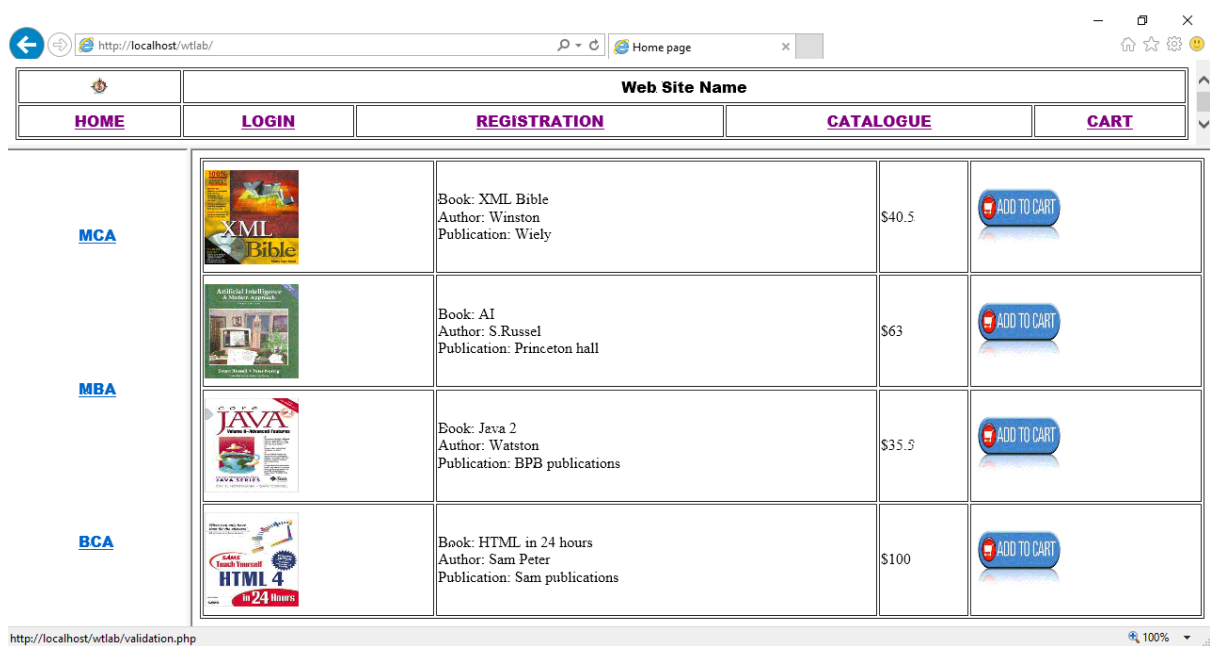
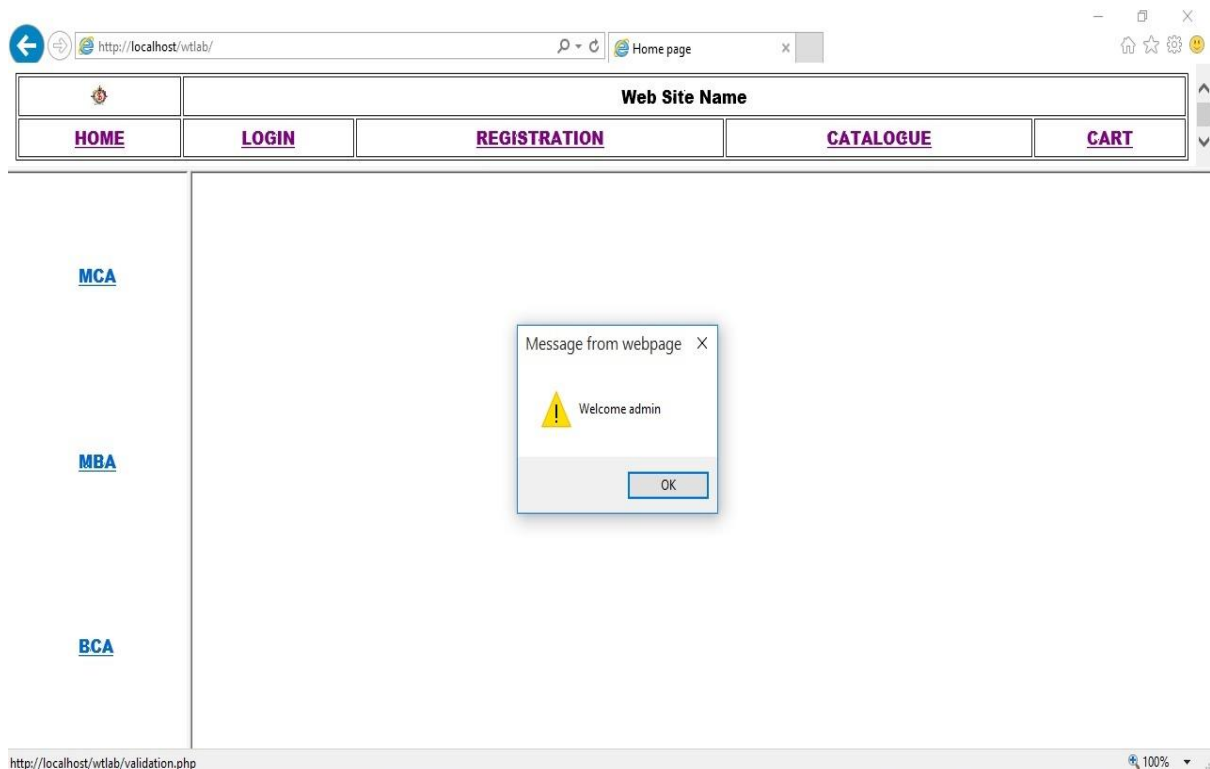
```

<?php
$conn = mysql_connect("localhost","root","") or die("Failed to Connect:".mysql_error());
mysql_select_db("test",$conn) or die("No Database existing:".mysql_error());
if(isset($_POST['uname']))
{
  $uname=$_POST['uname'];
  $pass=$_POST['pass'];
  $res = mysql_query("select * from registration1 where uname='$uname' and pass ='$pass'");
  $count=mysql_num_rows($res);
}

```

```
if($count)
    echo "<script>alert('Welcome $uname');window.location='catalogue.html';</script>";
else
    echo "<br/><br/><br/><h2 align='center'>Invalid Username/Password/Try
again!!!!</h2>";
}
?>
```

**OUTPUT:**





**22. Install a database (MySQL or Oracle).**

Create a table which should contain at least the following fields: name, password, email-id, phone Number (these should hold the data from the registration form). Write a PHP program to connect to that database and extract data from the tables and display them. Experiment with various SQL queries. Insert the details of the users who register with the web site, whenever a new user clicks the submit button in the registration page.

**registration table:**

```
CREATE TABLE registration
(
  uname varchar(25) NOT NULL,
  pass varchar(25) NOT NULL,
  email varchar(25) NOT NULL,
  phno bigint(10) NOT NULL,
  UNIQUE KEY (uname)
)
```

**registration.html**

```
<html>
  <head>
    <title> User Registration Page</title>
    <script language="javascript">
      function validate()
      {
        var nam = document.f1.uname.value;
        if(nam=="")
        {
          alert("Please enter name");
          document.f1.uname.focus;
          return false;
        }
        var pwd = document.f1.pass.value;
        if(pwd=="")
        {
          alert("Please enter Password");
          document.f1.pass.focus;
          return false;
        }
        var email = document.f1.email.value;
        if(email=="")
        {
          alert("Please enter youe email");
          document.f1.email.focus;
          return false;
        }
        var phno = document.f1.phone.value;
        len=phno.length
        if(phno==" " || len != 10)
        {
          alert("Please enter phno or should be strictly 10 digits");
          document.f1.phone.focus;
          return false;
        }
      }
    </script>
  </head>
  <body>
    <br/><br/><br/>
    <center>
      <form name="f1" action="insertData.php" method="post" onsubmit="javascript:return
validate()">
        <table border="3" cellpadding="0" cellspacing="0">
          <tr>
            <td>
              <table cellpadding="10">
                <tr>
                  <td colspan="2" align="center"><h2><u>User Registration Form</u></h2></td>
                </tr>
              </table>
            </td>
          </tr>
        </table>
      </form>
    </center>
  </body>
</html>
```

```

        <tr>
            <td>    User Name</td>
            <td><input type="text" name="uname" size="50"></td>
        </tr>
        <tr>
            <td>    Password</td>
            <td><input type="password" name="pass" size="50"></td>
        </tr>
        <tr>
            <td>    E-mail</td>
            <td><input type="text" name="email" size="50"></td>
        </tr>
        <tr>
            <td>    Phone</td>
            <td><input type="text" name="phone" size="15"></td>
        </tr>
        <tr>
            <td colspan="2" align="center"><input type="submit" value="submit"></td>
        </tr>
    </table>
</td>
</tr>
</table>
</form>
</center>
</body>
</html>

```

### insertData.php

```

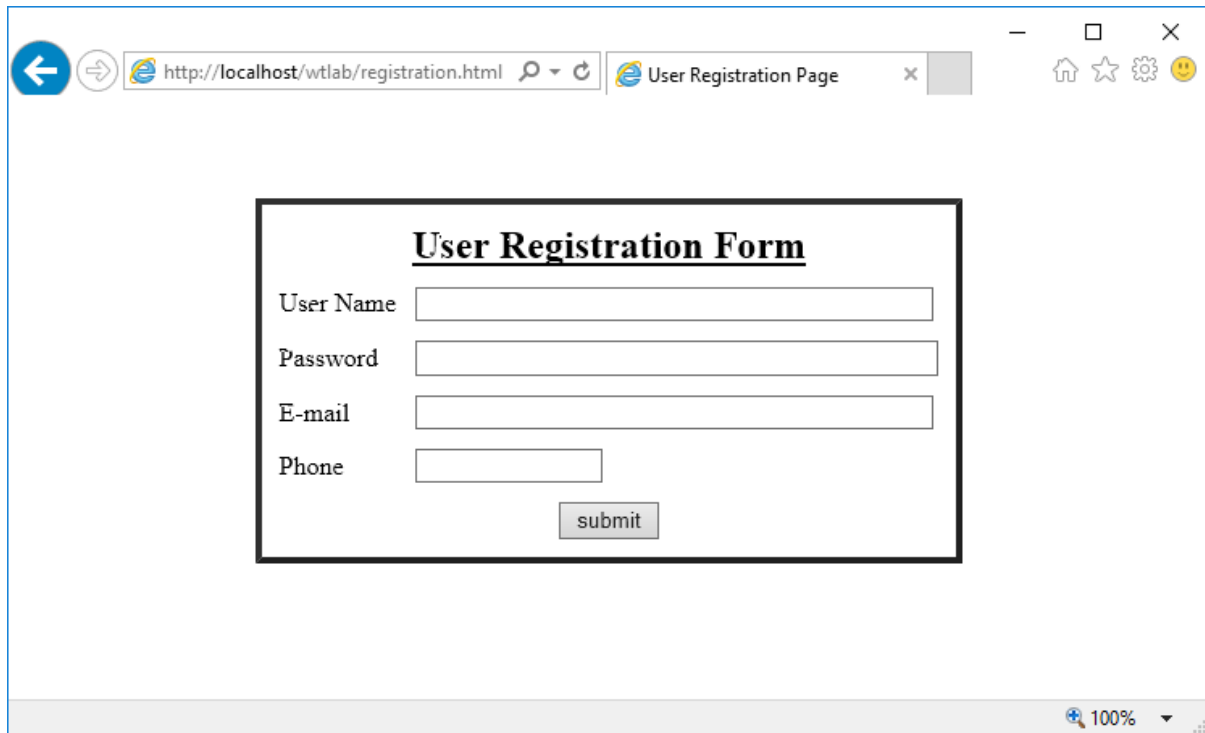
<?php
$conn = mysql_connect("localhost","root","");
if($conn)
    echo "Connected to database!!!";
else
    echo "Failed to Connect:".mysql_error();
mysql_select_db("test",$conn) or die("No Database existing:".mysql_error());
if(isset($_REQUEST['uname']))
{
    $uname=$_REQUEST['uname'];
    $pass=$_REQUEST['pass'];
    $email=$_REQUEST['email'];
    $phno=(float)$_REQUEST['phone'];
    $query = "INSERT INTO registration VALUES('$uname','$pass','$email','$phno')";
    mysql_query($query);
    $result = mysql_query("select * from registration");
}

?>

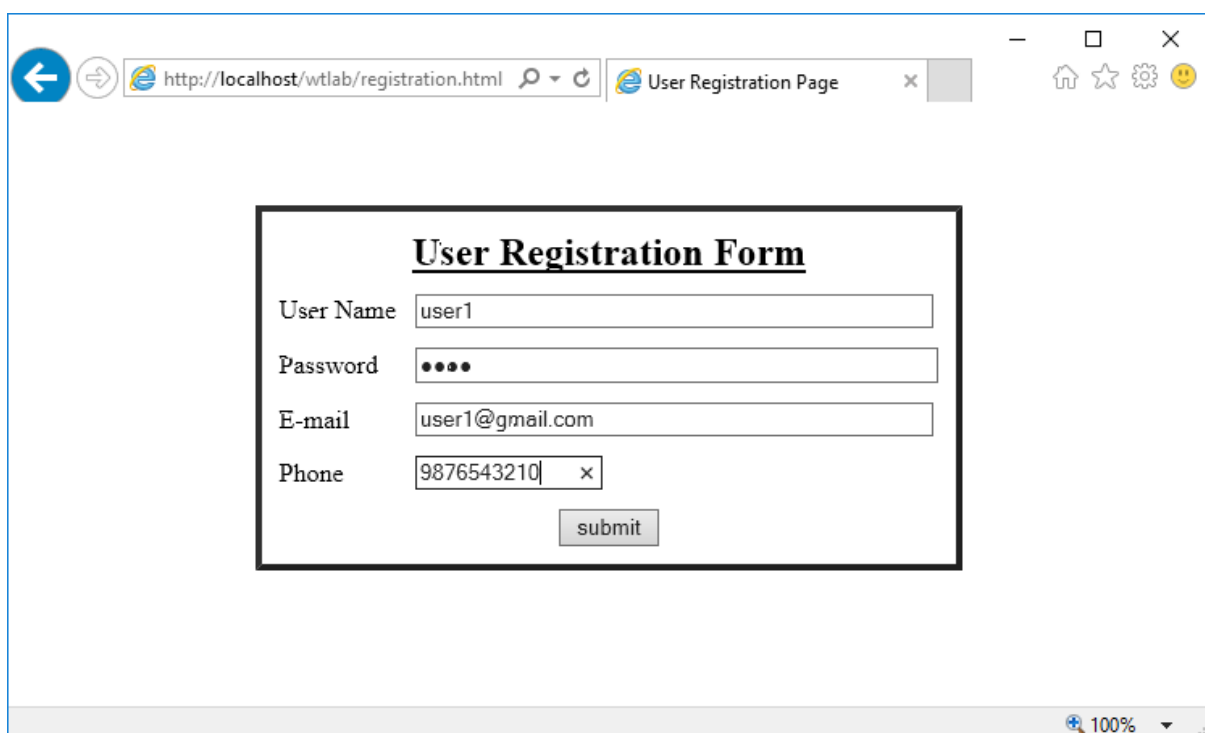
<html>
<body>
<br/><br/><br/>
<p align="right"><a href="registration.html">[Registration Page]</a></p>
<center>
<font face="verdana" size="4">
<table border="1" cellpadding="0" cellspacing="0">
<tr>
            <th colspan="4" align="center">User List</th>
        </tr>
        <tr>
            <th> S.No.</th>
            <th>    User Name</th>
            <th>    Email</th>
            <th>Phone</th>
        </tr>
        <?php $num=1; while($row = mysql_fetch_array($result))
        { ?>
            <tr>
                <td><?php echo $num++; ?> </td>
                <td><?php echo $row['uname']; ?> </td>
                <td><?php echo $row['email']; ?> </td>

```

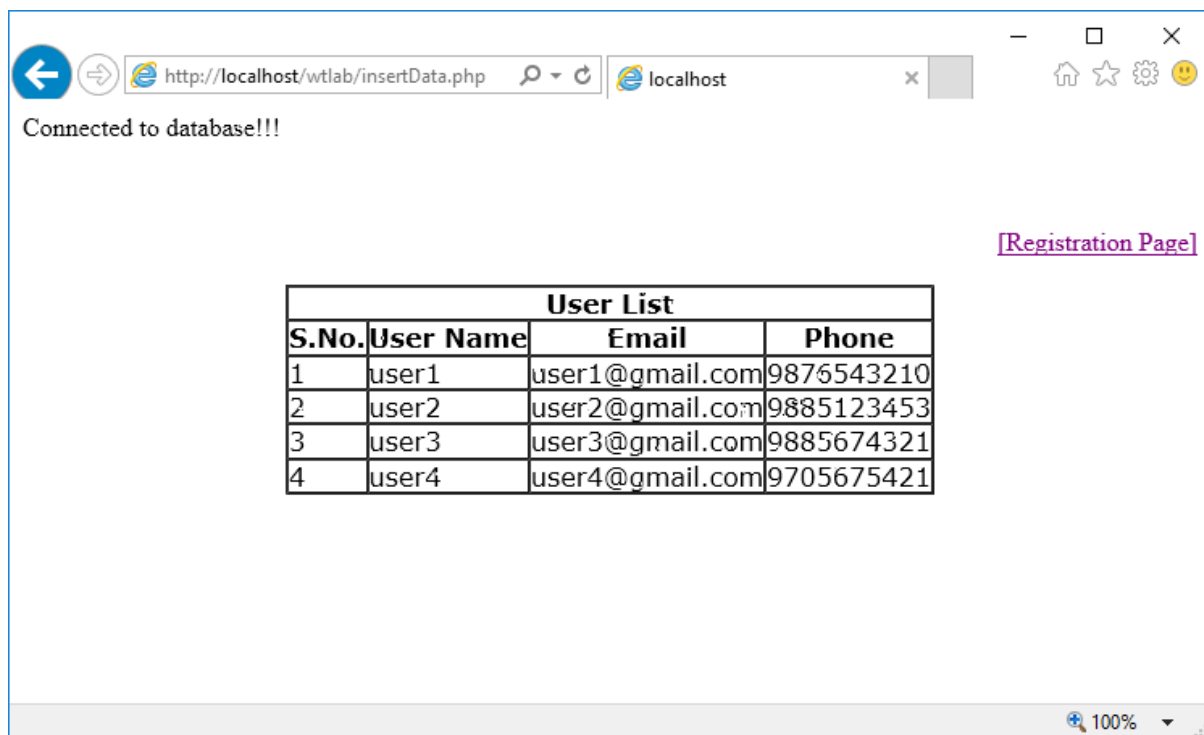
```
<td><?php echo $row['phno']; ?> </td>
</tr>
<?php }?>
</table>
</center>
</body>
</html>
<?php } ?>
```

**OUTPUT:**

The screenshot shows a web browser window with the address bar displaying `http://localhost/wtlab/registration.html`. The page title is "User Registration Page". The form, titled "User Registration Form", contains four input fields: "User Name", "Password", "E-mail", and "Phone". A "submit" button is located below the "Phone" field. The form is centered on the page.



The screenshot shows the same web browser window, but the form fields are now filled with sample data: "User Name" is "user1", "Password" is masked with four dots, "E-mail" is "user1@gmail.com", and "Phone" is "9876543210". The "submit" button remains below the "Phone" field. The form is still centered on the page.



**23. Write a PHP which does the following job: Insert the details of the 3 or 4 users who register with the web site by using registration form. Authenticate the user when he/she submits the login form using the user name and password from the database..**

**login.html**

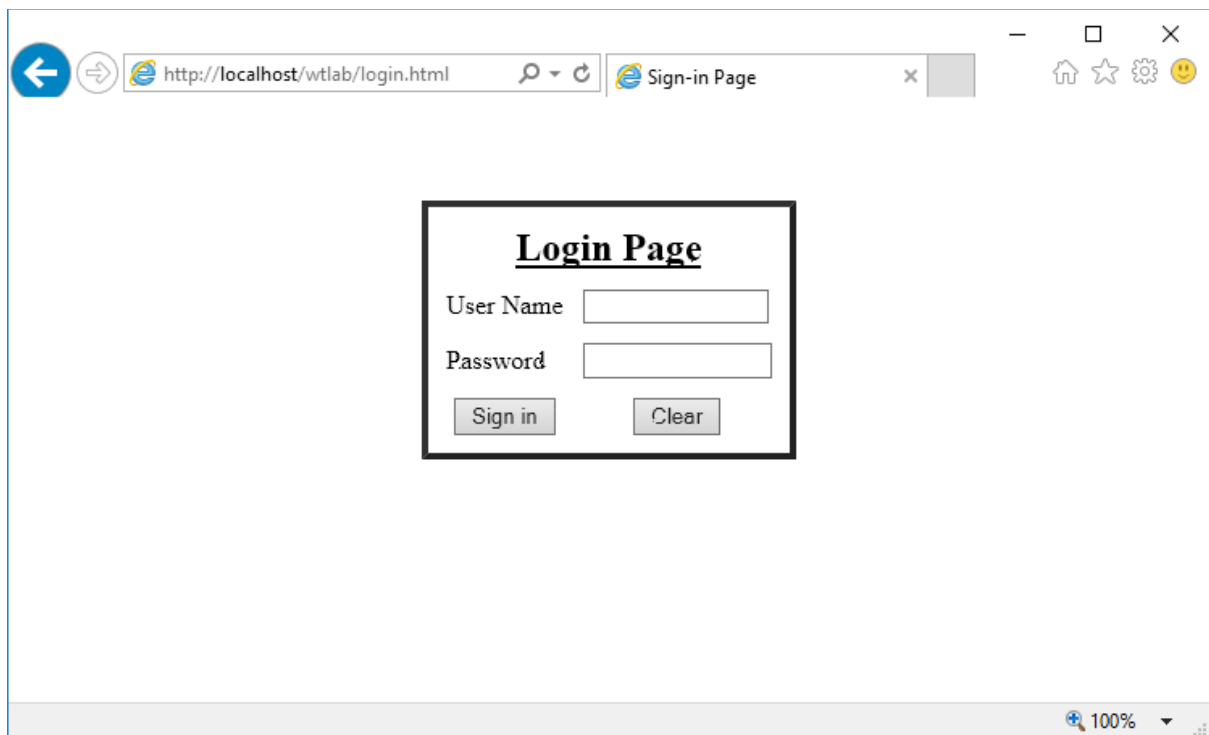
```
<html>
  <head>
    <title> Sign-in Page </title>
    <script language="javascript">
      function validate()
      {
        var nam = document.f1.uname.value;
        if(nam=="")
        {
          alert("Please enter name");
          document.f1.uname.focus;
          return false;
        }
        var pwd = document.f1.pass.value;
        if(pwd=="")
        {
          alert("Please enter Password");
          document.f1.pass.focus;
          return false;
        }
      }
    </script>
  </head>
  <body>
    <br/><br/><br/>
    <center>
      <form name="f1" action="validation.php" method="post" onsubmit="javascript:return
validate()">
        <table border="3" cellpadding="0" cellspacing="0">
          <tr>
            <td>
              <table cellpadding="10">
                <tr>
                  <td colspan="2" align="center"><h2><u>Login Page<u></h2></td>
                </tr>
                <tr>
                  <td> User Name</td>
                  <td><input type="text" name="uname" size="15"></td>
                </tr>
                <tr>
                  <td> Password</td>
                  <td><input type="password" name="pass" size="15"></td>
                </tr>
                <tr>
                  <td colspan="2" align="center"><input type="submit" value="submit"></td>
                </tr>
              </table>
            </td>
          </tr>
        </table>
      </form>
    </center>
  </body>
</html>
```

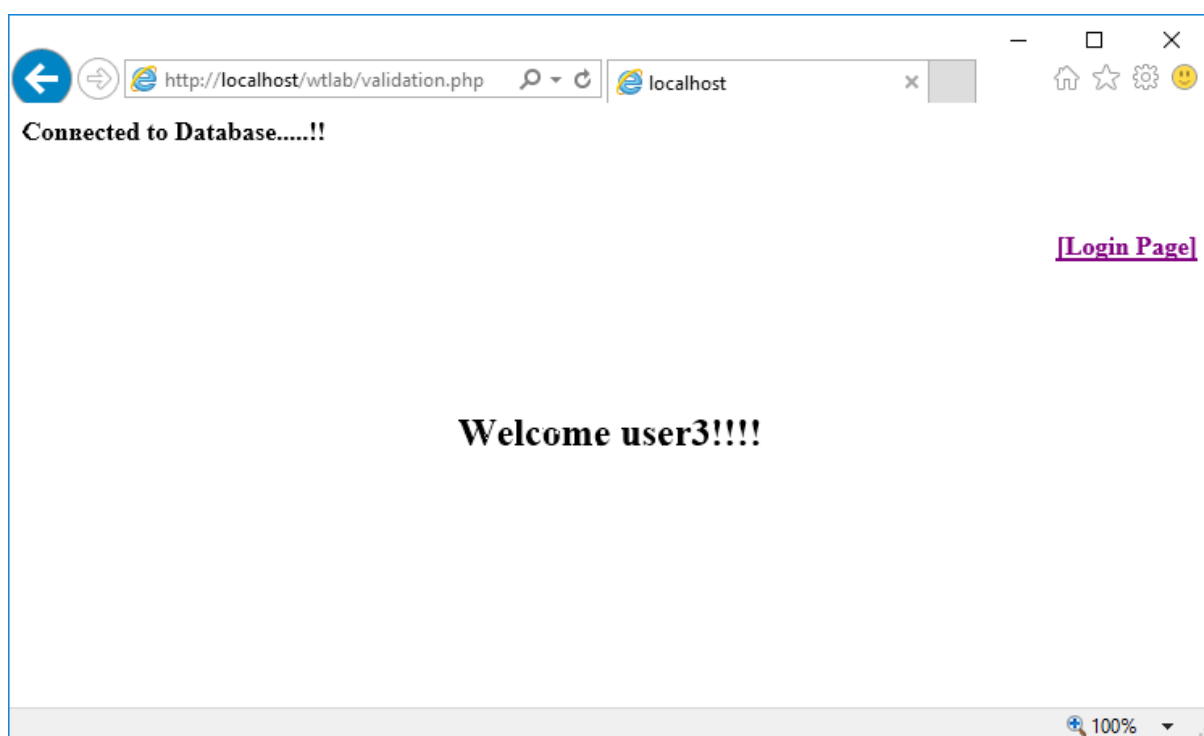
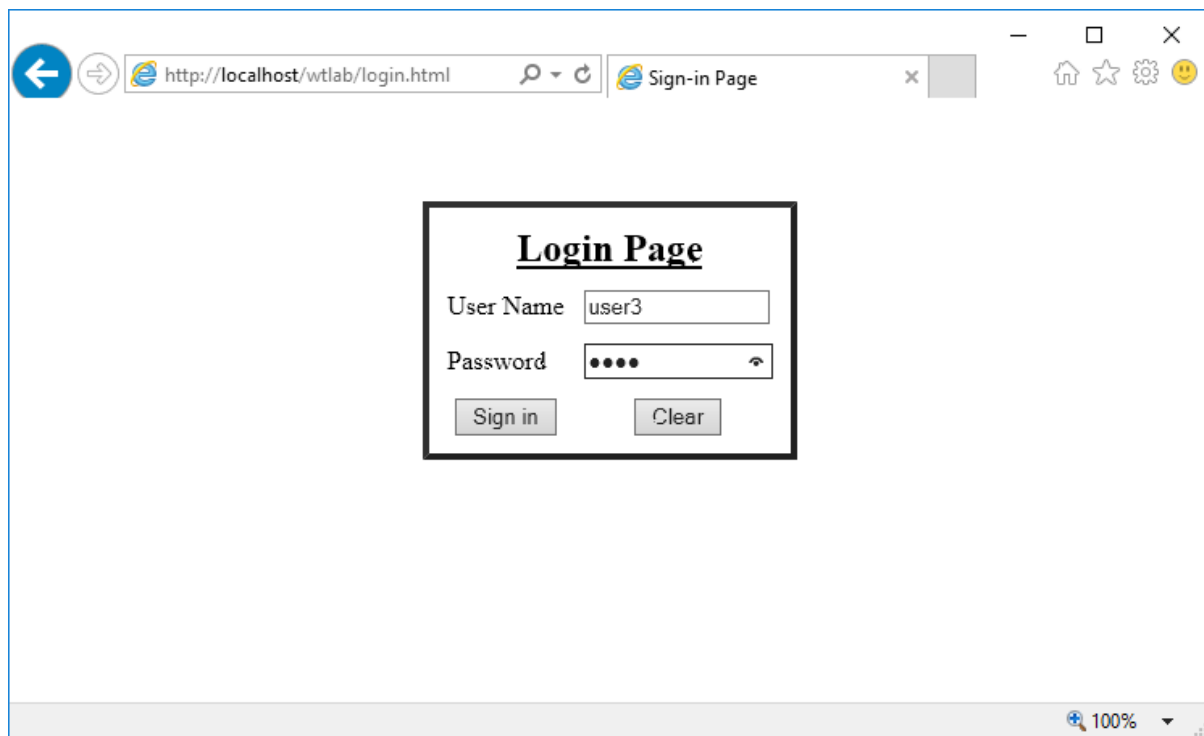
**validation.php**

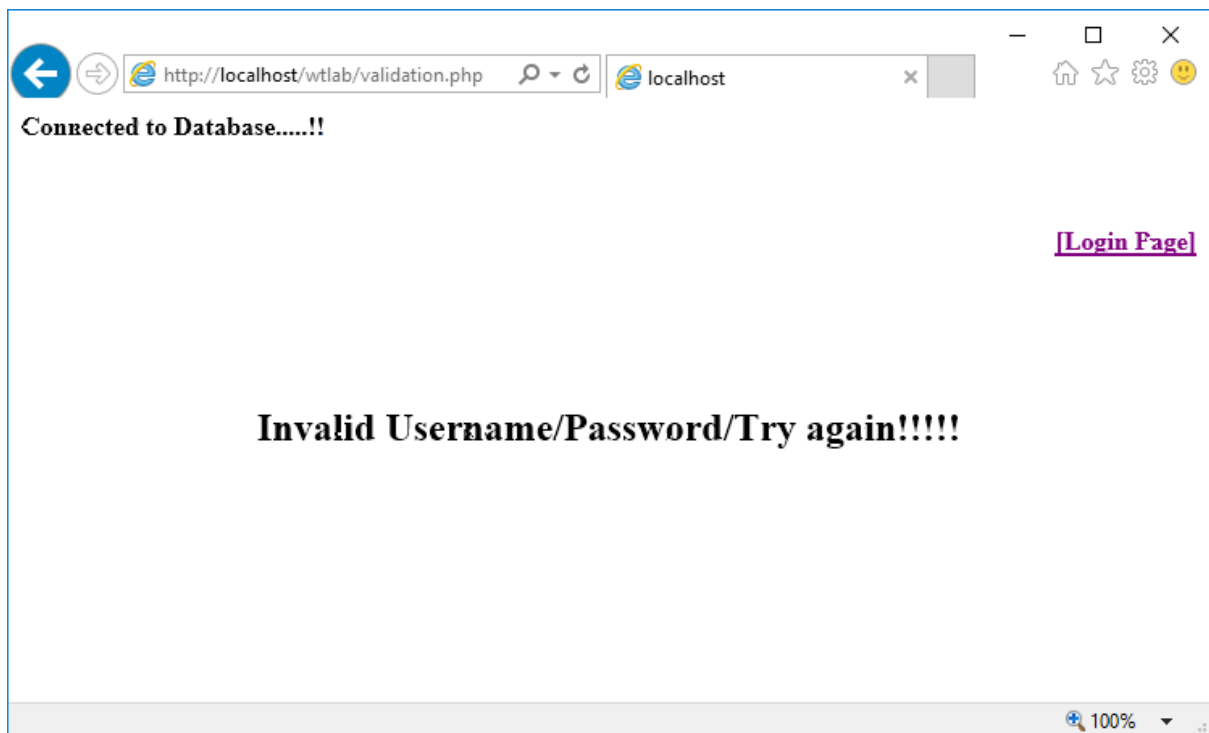
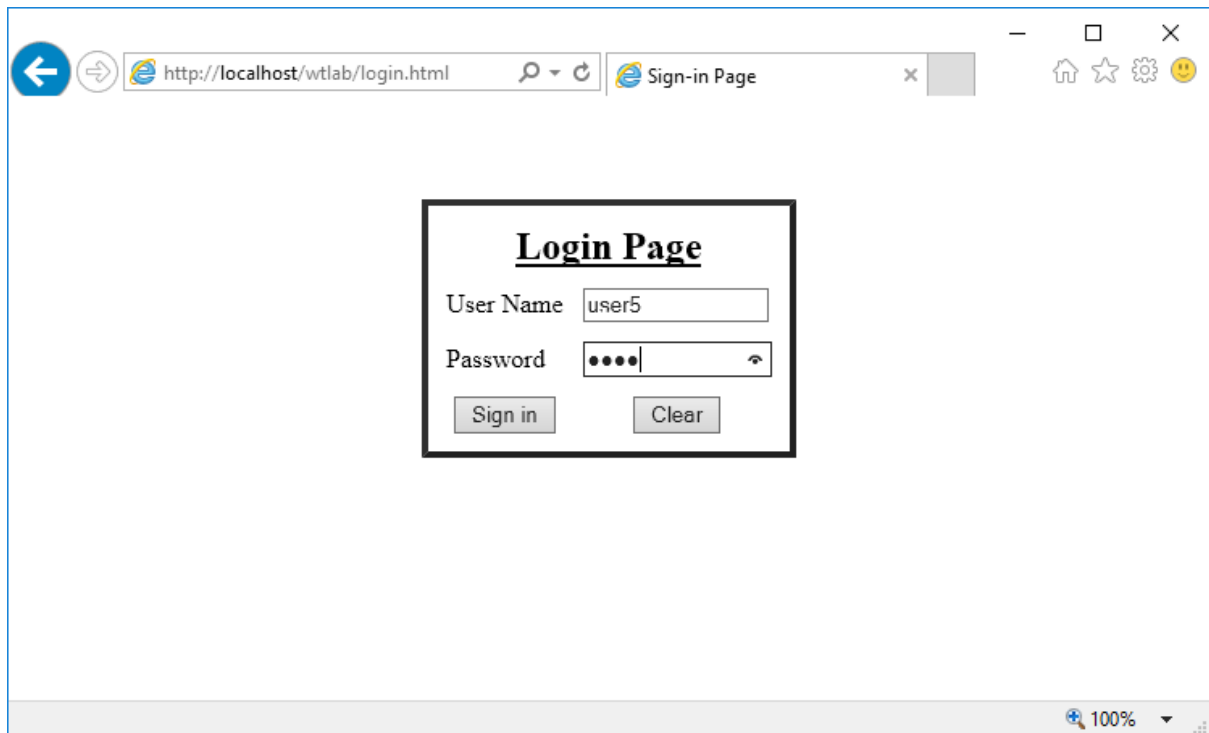
```

<?php
$conn = mysql_connect("localhost","root","");
if($conn)
    echo "<h4>Connected to Database.....!!";
else
    echo "Failed to Connect:".mysql_error()."</h4>";
mysql_select_db("test",$conn) or die("No Database existing:".mysql_error());
if(isset($_POST['uname']))
{
    $uname=$_POST['uname'];
    $pass=$_POST['pass'];
    echo"<br/><br/><br/><p align='right'><a href='login.html'>[Login Page]</a></p>";
    $res = mysql_query("select * from registration where uname='$uname' and pass ='$pass'");
    $count=mysql_num_rows($res);
    if($count)
        echo "<br/><br/><br/><h2 align='center'>Welcome $uname!!!!</h2>";
    else
        echo "<br/><br/><br/><h2 align='center'>Invalid Username/Password/Try
again!!!!</h2>";
    }
?>

```

**OUTPUT:**







**24. Create tables in the database which contain the details of items (books in our case like Book name, Price, Quantity, Amount) of each category. Modify your catalogue page (week 2) in such a way that you should connect to the database and extract data from the tables and display them in the catalogue page using PHP**

**Catalogue table**

```
CREATE TABLE catalogue
(
    bname varchar(50) NOT NULL,
    auth varchar(25) NOT NULL,
    publ varchar(25) NOT NULL,
    isbn varchar(20) NOT NULL,
    edi varchar(10) NOT NULL,
    cost int(5) NOT NULL,
    qty int(3) NOT NULL,
    UNIQUE KEY(bname)
)
```

**bkEntryForm.html**

```
<html>
  <head>
    <title> Catalogue Page</title>
    <script language="javascript">
      function validate()
      {
        var nam = document.f1.bname.value;
        if(nam=="")
        {
          alert("Please enter Book name");
          document.f1.bname.focus();
          return false;
        }
        var auth = document.f1.auth.value;
        if(auth=="")
        {
          alert("Please enter Author Name");
          document.f1.auth.focus();
          return false;
        }
        var publ = document.f1.publ.value;
        if(publ=="")
        {
          alert("Please enter Publisher name");
          document.f1.publ.focus();
          return false;
        }
        var isbn = document.f1.isbn.value;
        if(isbn=="")
        {
          alert("Please enter ISBN Number");
          document.f1.isbn.focus();
          return false;
        }
        var ed = document.f1.edi.value;
        if(ed=="")
        {
          alert("Please enter book edition");
          document.f1.edi.focus();
          return false;
        }
        var cost = document.f1.cost.value;
        if(cost=="")
        {
          alert("Please enter cost of the book");
          document.f1.cost.focus();
          return false;
        }
      }
    </script>
  </head>
</html>
```

```

        var qty = document.f1.qty.value;
        if(qty=="")
        {
            alert("Please enter number of books you want!!!");
            document.f1.qty.focus();
            return false;
        }
    }
</script>
</head>
<body>
    <br/><br/><br/>
    <center>
    <form name="f1" action="Catalogue.php" method="post" onsubmit="javascript:return
validate()">
        <table border="3" cellpadding="0" cellspacing="0">
        <tr>
        <td>
        <table cellspacing="5">
        <tr>
            <td colspan="2" align="center"><h2><u>Book Details Entry Form</u></h2></td>
        </tr>
        <tr>
            <td> Book Name</td>
            <td><input type="text" name="bname" size="50"></td>
        </tr>
        <tr>
            <td> Author</td>
            <td><input type="text" name="auth" size="50"></td>
        </tr>
        <tr>
            <td> Publication</td>
            <td><input type="text" name="publ" size="50"></td>
        </tr>
        <tr>
            <td> ISBN</td>
            <td><input type="text" name="isbn" size="15"></td>
        </tr>
        <tr>
            <td> Edition</td>
            <td><input type="text" name="edi" size="15"></td>
        </tr>
        <tr>
            <td> Cost</td>
            <td><input type="text" name="cost" size="5"></td>
        </tr>
        <tr>
            <td> Quantity</td>
            <td><input type="text" name="qty" size="3"></td>
        </tr>
        <tr>
            <td colspan="2" align="center"><input type="submit" value="submit"></td>
        </tr>
        </table>
        </td>
    </tr>
    </table>
    </form>
    </center>
</body>
</html>

```

**Catalogue.php**

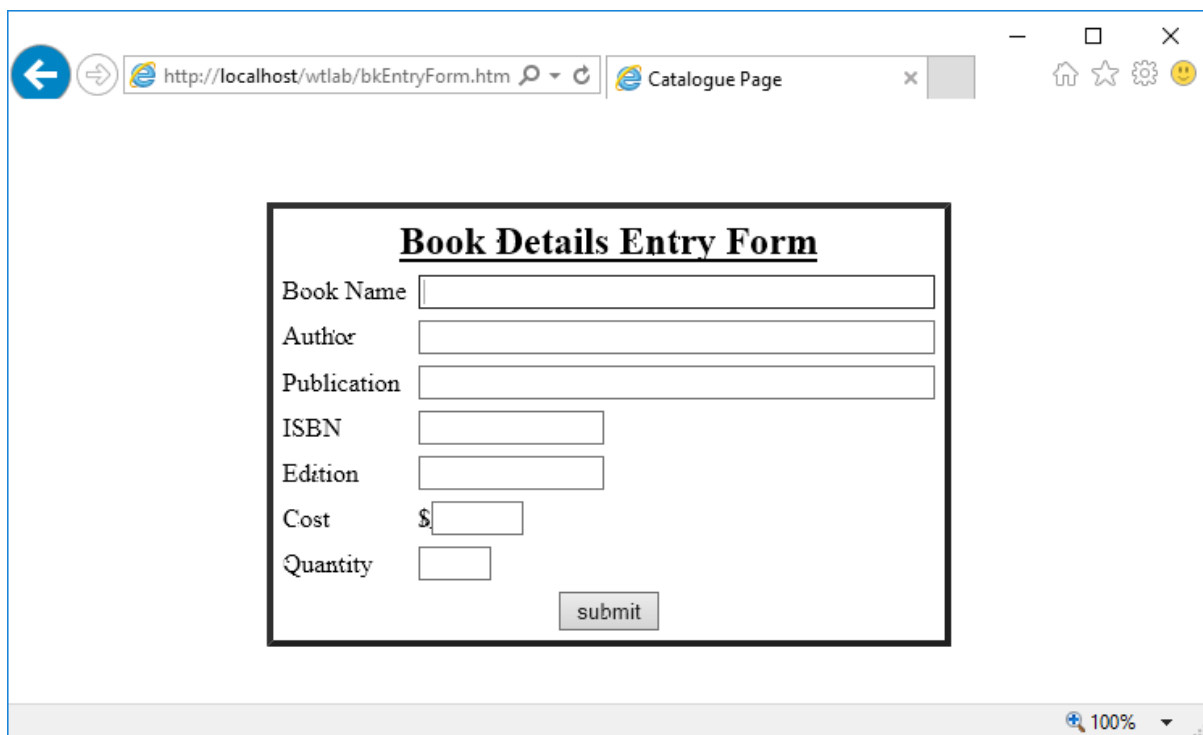
```

<?php
$conn = mysql_connect("localhost","root","");
if($conn)
    echo "Connected to database!!!";
else
    echo "Failed to Connect:".mysql_error();
mysql_select_db("test",$conn) or die("No Database existing:".mysql_error());

if(isset($_POST['bname']))
{
    $bname=$_POST['bname'];
    $auth=$_POST['auth'];
    $publ=$_POST['publ'];
    $isbn=$_POST['isbn'];
    $edi=$_POST['edi'];
    $cost=(float)$_POST['cost'];
    $qty=(int)$_POST['qty'];
    echo "<br/><br/><p align='right'><a href='bkEntryForm.html'>[Book Entry Page]</a></p>";
    $query = "INSERT INTO catalogue VALUES('$bname','$auth','$publ','$isbn','$edi','$cost','$qty')";
    mysql_query($query);
    $result = mysql_query("select * from catalogue");
?>

<html>
<body><center>
<font face="verdana" size="4">
<table border="1" cellpadding="0" cellspacing="0">
<tr>
<th colspan="8" align="center">Books List</th>
</tr>
<tr>
<th>S.No.</th>
<th>Title</th>
<th>Author</th>
<th>Publication</th>
<th>ISBN</th>
<th>Edition</th>
<th>Cost</th>
<th>Quantity</th>
</tr>
<?php $num=1; while($row = mysql_fetch_array($result))
{ ?>
<tr>
<td align="center"><?php echo $num++; ?> </td>
<td align="left"><?php echo $row['bname']; ?> </td>
<td align="left"><?php echo $row['auth']; ?> </td>
<td align="left"><?php echo $row['publ']; ?> </td>
<td align="center"><?php echo $row['isbn']; ?> </td>
<td align="center"><?php echo $row['edi']; ?> </td>
<td align="center"><?php echo $row['cost']; ?> </td>
<td align="center"><?php echo $row['qty']; ?> </td>
</tr>
<?php ?>
</table>
</center>
</body>
</html>
<?php } ?>

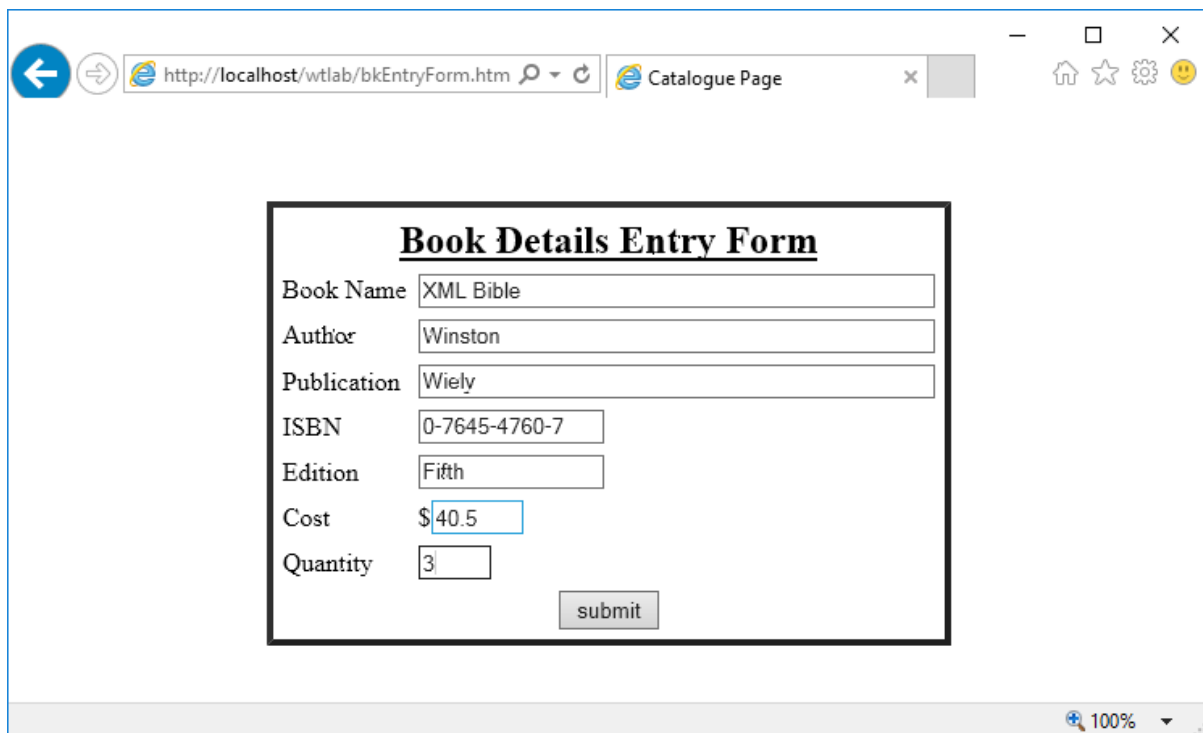
```

**OUTPUT:**

A screenshot of a web browser window displaying an empty "Book Details Entry Form". The browser's address bar shows the URL "http://localhost/wtlab/bkEntryForm.htm" and the page title is "Catalogue Page". The form is titled "Book Details Entry Form" and contains the following fields:

- Book Name:
- Author:
- Publication:
- ISBN:
- Edition:
- Cost: \$
- Quantity:

A "submit" button is located at the bottom right of the form.



A screenshot of the same web browser window, but now the "Book Details Entry Form" is filled with sample data:

- Book Name: XML Bible
- Author: Winston
- Publication: Wiely
- ISBN: 0-7645-4760-7
- Edition: Fifth
- Cost: \$40.5
- Quantity: 3

The "submit" button remains at the bottom right of the form.

Connected to database!!!

[\[Book Entry Page\]](#)

Books List							
S.No.	Title	AUTHOR	Publication	ISBN	Edition	Cost	Quantity
1	Aritificial Intelligence	S. Russel	Princeton Hall	0-13-1038-5-2	Sixth	63	2
2	HTML in 24 Hours	Sam Peter	Sam Publications	0-672-32841-0	Fifth	50	2
3	Java 2	Watson	BPB Publications	0-41-1058-7-2	Third	63	6
4	XML Bible	Winston	Wiely	0-7645-4760-7	Fifth	40.5	3

**25. HTTP is a stateless protocol. Session is required to maintain the state.**

The user may add some items to cart from the catalog page. He can check the cart page for the selected items. He may visit the catalogue again and select some more items. Here our interest is the selected items should be added to the old cart rather than a new cart. Multiple users can do the same thing at a time (i.e., from different systems in the LAN using the ip-address instead of local host). This can be achieved through the use of sessions. Every user will have his own session which will be created after his successful login to the website. When the user logs out his session should get invalidated (by using the method `session.invalidate()` ).

**Modify your catalogue and cart PHP pages to achieve the above mentioned functionality using sessions.**

**style.css**

```
body
{
    width:800px;
}
.txt-heading
{
    padding: 5px 10px;
    font-size:1.1em;
    font-weight:bold;
    color:#999;
}
.btnRemoveAction
{
    color:#D60202;
    border:0;
    padding:2px 10px;
    font-size:0.9em;
}
#btnEmpty
{
    background-color:#D60202;
    border:0;
    padding:1px 10px;
    color:#FFF;
    font-size:0.8em;
    font-weight:normal;
    float:right;
    text-decoration:none;
}
.btnAddAction
{
    background-color:#79b946;
    border:0;
    padding:3px 10px;
    color:#FFF;
    margin-left:1px;
}
#shopping-cart
{
    border-top: #79b946 2px solid;
    margin-bottom:30px;
}
#shopping-cart .txt-heading
{
    background-color: #D3F5B8;
}
#shopping-cart table
{
    width:100%;
    background-color:#F0F0F0;
}
#shopping-cart table td
```

```
{
    background-color:#FFFFFF;
}
.cart-item
{
    border-bottom: #79b946 1px dotted;
    padding: 10px;
}
#product-grid
{
    border-top: #F08426 2px solid;
    margin-bottom:30px;
}
#product-grid .txt-heading
{
    background-color: #FFD0A6;
}
.product-item {
    float:left;
    background:#F0F0F0;
    margin:15px;
    padding:5px;
}
.product-item div
{
    text-align:center;
    margin:10px;
}
.product-price
{
    color:#F08426;
}
.product-image {
    height:100px;
    background-color:#FFF;
}
```

#### **dbController.php**

```
<?php
class DBController {
    private $host = "localhost";
    private $user = "root";
    private $password = "";
    private $database = "test";

    function __construct() {
        $conn = $this->connectDB();
        if(!empty($conn)) {
            $this->selectDB($conn);
        }
    }

    function connectDB() {
        $conn = mysql_connect($this->host,$this->user,$this->password);
        return $conn;
    }

    function selectDB($conn) {
        mysql_select_db($this->database,$conn);
    }

    function runQuery($query) {
        $result = mysql_query($query);
        while($row=mysql_fetch_assoc($result)) {
            $resultset[] = $row;
        }
        if(!empty($resultset))
            return $resultset;
    }
}
```

**index.php**

```

<?php
session_start();
require_once("dbcontroller.php");
$db_handle = new DBController();
if(!empty($_GET["action"])) {
switch($_GET["action"]) {
    case "add":
        if(!empty($_POST["quantity"])) {
            $productByCode = $db_handle->runQuery("SELECT * FROM tblproduct WHERE
code=" . $_GET["code"] . "");
            $itemArray =
array($productByCode[0]["code"]=>array('name'=>$productByCode[0]["name"],
'code'=>$productByCode[0]["code"], 'quantity'=>$_POST["quantity"], 'price'=>$productByCode[0]["price"]));

            if(!empty($_SESSION["cart_item"])) {
                if(in_array($productByCode[0]["code"],$_SESSION["cart_item"])) {
                    foreach($_SESSION["cart_item"] as $k => $v) {
                        if($productByCode[0]["code"] == $k)
                            $_SESSION["cart_item"][$k]["quantity"]
= $_POST["quantity"];
                    }
                } else {
                    $_SESSION["cart_item"] =
array_merge($_SESSION["cart_item"],$itemArray);
                }
            } else {
                $_SESSION["cart_item"] = $itemArray;
            }
        }
        break;
    case "remove":
        if(!empty($_SESSION["cart_item"])) {
            foreach($_SESSION["cart_item"] as $k => $v) {
                if($_GET["code"] == $k)
                    unset($_SESSION["cart_item"][$k]);

                if(empty($_SESSION["cart_item"]))
                    unset($_SESSION["cart_item"]);
            }
        }
        break;
    case "empty":
        unset($_SESSION["cart_item"]);
        break;
}
}
?>
<HTML>
<HEAD>
<TITLE>Simple PHP Shopping Cart</TITLE>
<link href="style.css" type="text/css" rel="stylesheet" />
</HEAD>
<BODY>
<div id="shopping-cart">
<div class="txt-heading">Shopping Cart <a id="btnEmpty" href="index.php?action=empty">Empty Cart</a></div>
<?php
if(isset($_SESSION["cart_item"])){
    $item_total = 0;
?>
<table cellpadding="10" cellspacing="1">
<tbody>
<tr>
<th><strong>Name</strong></th>
<th><strong>Code</strong></th>
<th><strong>Quantity</strong></th>
<th><strong>Price</strong></th>
<th><strong>Action</strong></th>
</tr>

```



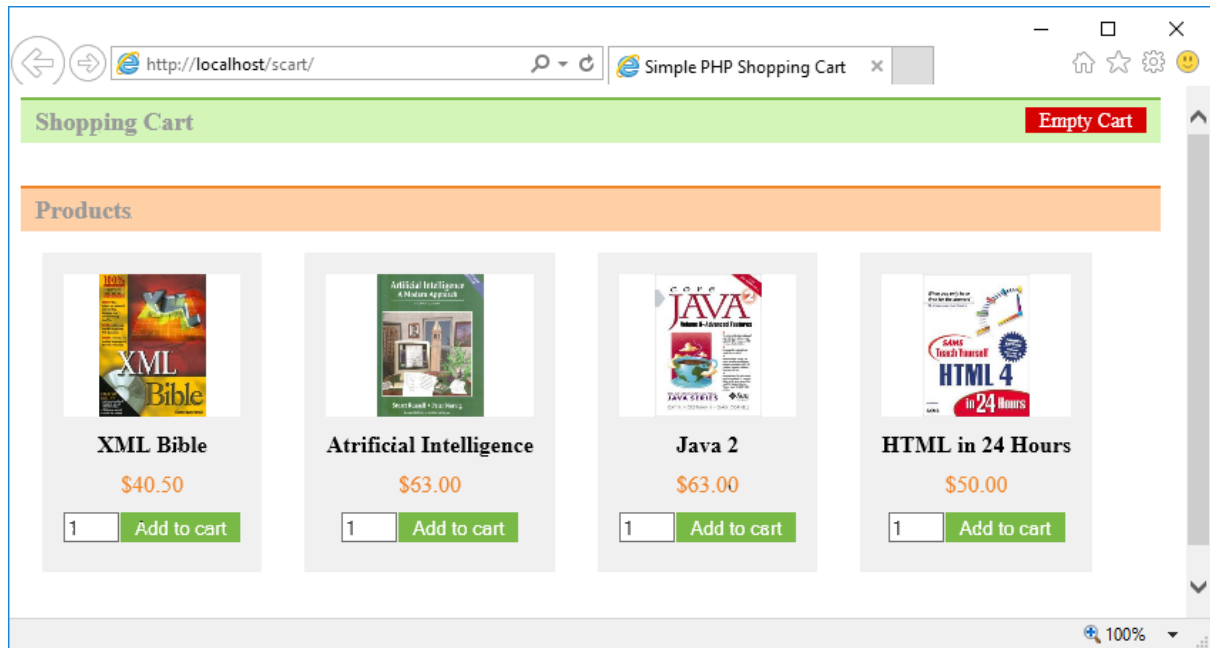
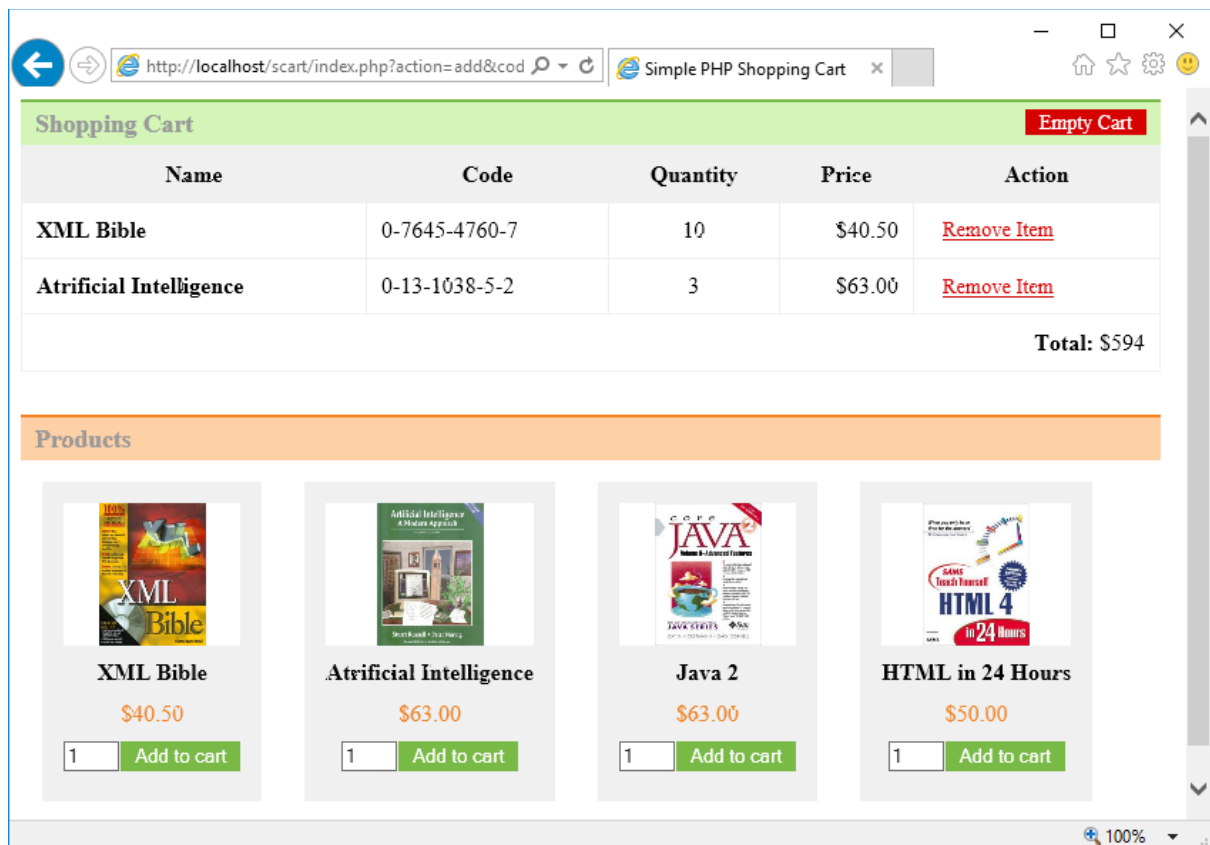
```

<?php
    foreach ($_SESSION["cart_item"] as $item){
        ?>
            <tr>
                <td><strong><?php echo $item["name"]; ?></strong></td>
                <td><?php echo $item["code"]; ?></td>
                <td align=center><?php echo $item["quantity"]; ?></td>
                <td align=right><?php echo "$".$item["price"]; ?></td>
                <td><a href="index.php?action=remove&code=<?php echo $item["code"];
?>" class="btnRemoveAction">Remove Item</a></td>
            </tr>
            <?php
                $item_total += ($item["price"]*$item["quantity"]);
            }
        ?>

    <tr>
    <td colspan="5" align=right><strong>Total:</strong> <?php echo "$".$item_total; ?></td>
    </tr>
</tbody>
</table>
<?php
}
?>
</div>

<div id="product-grid">
    <div class="txt-heading">Products</div>
    <?php
        $product_array = $db_handle->runQuery("SELECT * FROM tblproduct ORDER BY id ASC");
        if (!empty($product_array)) {
            foreach($product_array as $key=>$value){
                ?>
                    <div class="product-item">
                        <form method="post" action="index.php?action=add&code=<?php echo
$product_array[$key]["code"]; ?>">
                            <div class="product-image">" height="100" width="75"></div>
                                <div><strong><?php echo $product_array[$key]["name"]; ?></strong></div>
                                <div class="product-price"><?php echo "$".$product_array[$key]["price"]; ?></div>
                                <div><input type="text" name="quantity" value="1" size="2" /><input type="submit"
value="Add to cart" class="btnAddAction" /></div>
                            </form>
                        </div>
                    <?php
                        }
                }
            ?>
        </div>
</BODY>
</HTML>

```

**OUTPUT****Empty Cart****After adding items to cart**

**After modification**

The screenshot shows a web browser window with the URL `http://localhost/scart/index.php?action=remove&`. The page title is "Simple PHP Shopping Cart".

**Shopping Cart**

Name	Code	Quantity	Price	Action
Artificial Intelligence	0-13-1038-5-2	3	\$63.00	<a href="#">Remove Item</a>
HTML in 24 Hours	0-672-32841-0	5	\$50.00	<a href="#">Remove Item</a>
Java 2	0-41-1058-7-2	3	\$63.00	<a href="#">Remove Item</a>
<b>Total: \$628</b>				

**Products**

**XML Bible**  
\$40.50  
1 [Add to cart](#)

**Artificial Intelligence**  
\$63.00  
1 [Add to cart](#)

**Java 2**  
\$63.00  
1 [Add to cart](#)

**HTML in 24 Hours**  
\$50.00  
1 [Add to cart](#)