

**1. Install the following**

- Install the following on the local machine
- Apache Web Server(if not installed)
- Tomcat Application Server locally
- Install MYSQL(if not installed)
- Install PHP and configure it to work with Apache web server and MYSQL(if not already configured)

**OBJECTIVE:**

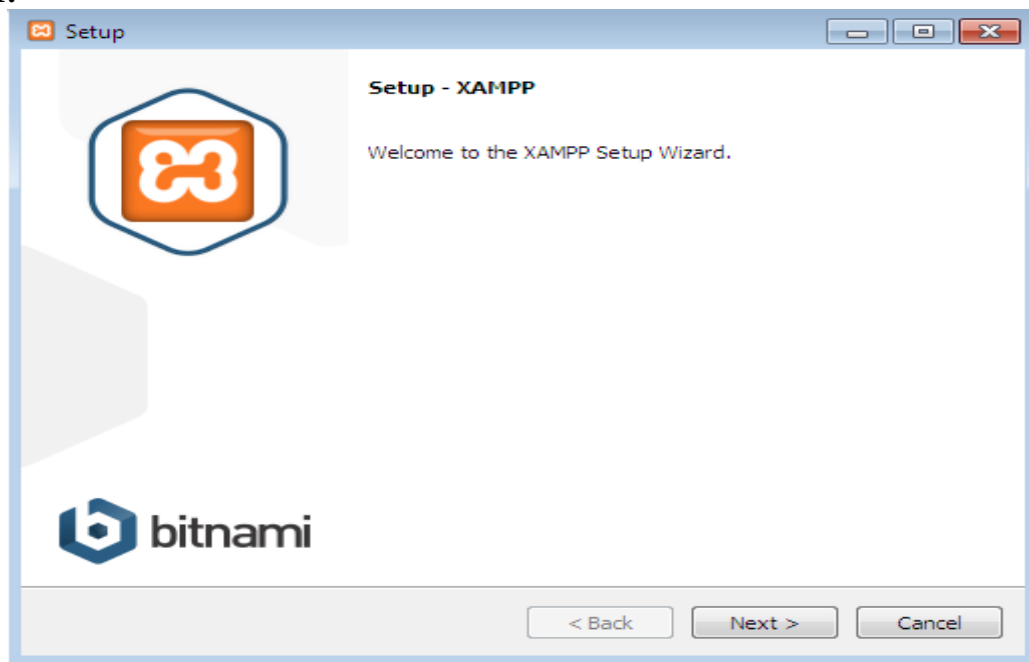
1(a): To Install XAMPP Stack Server.

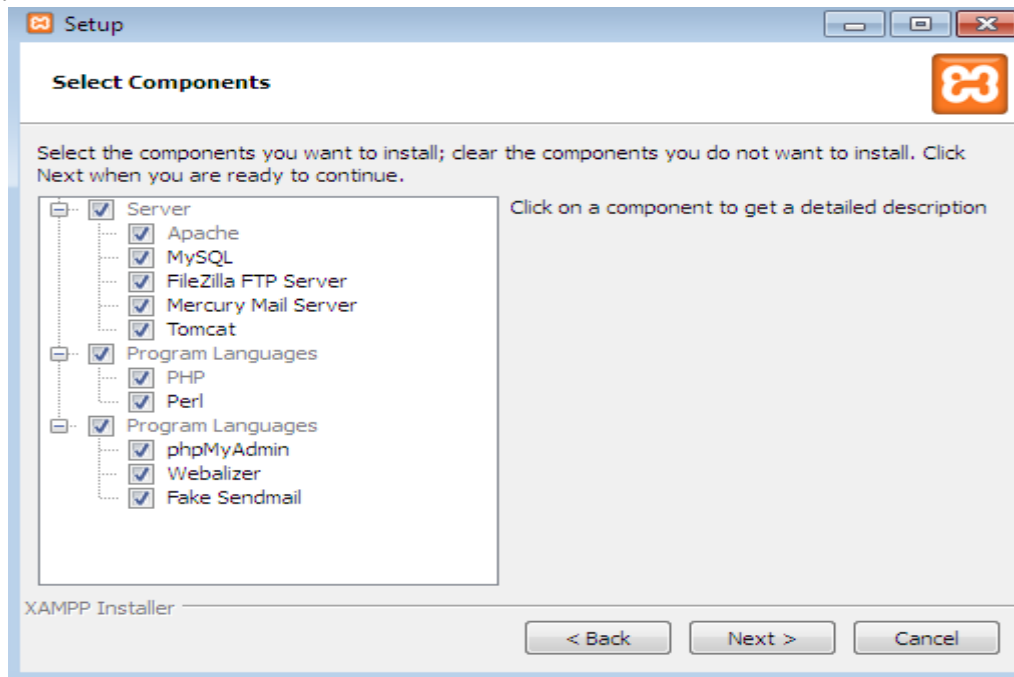
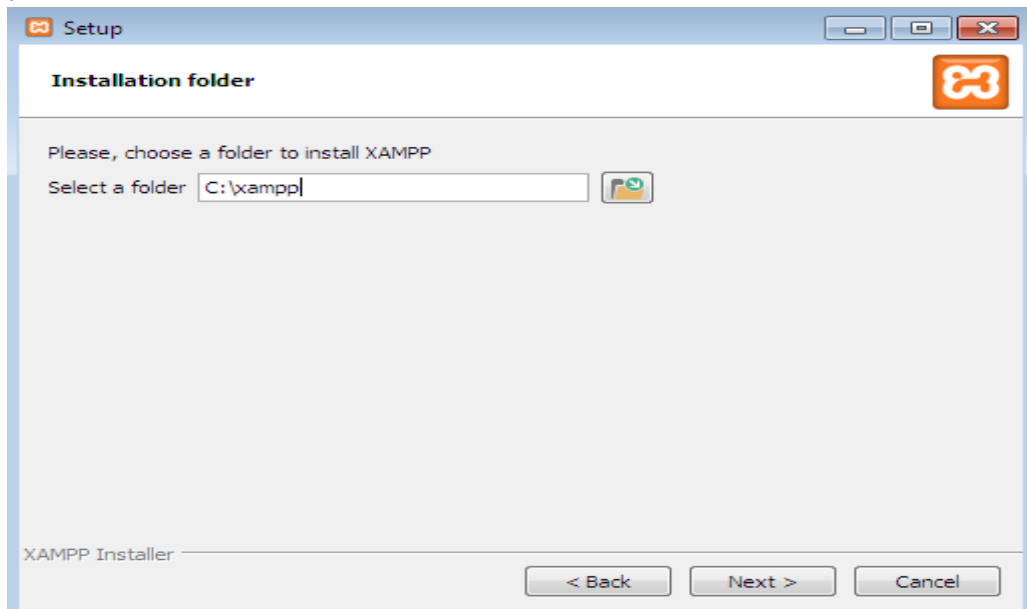
**RESOURCES:**

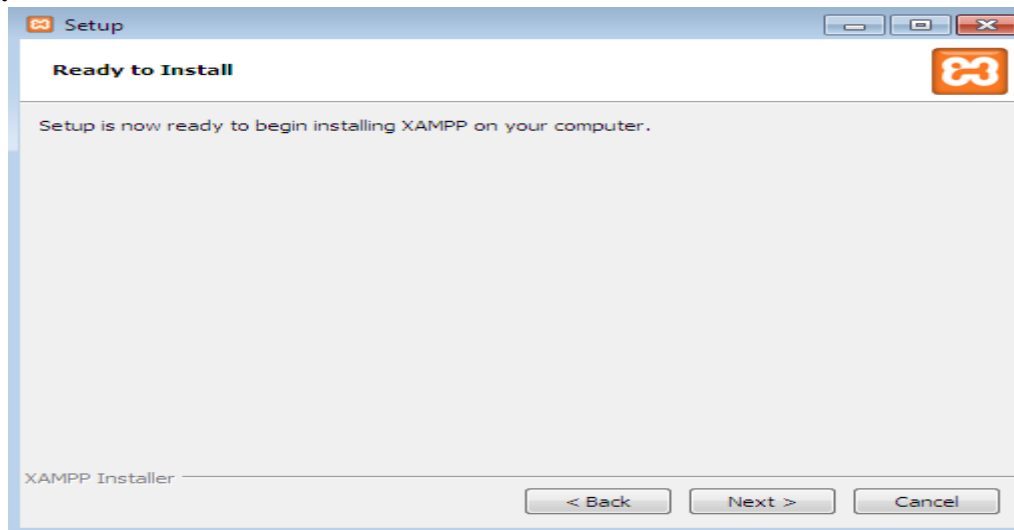
XAMPP Stack Software.

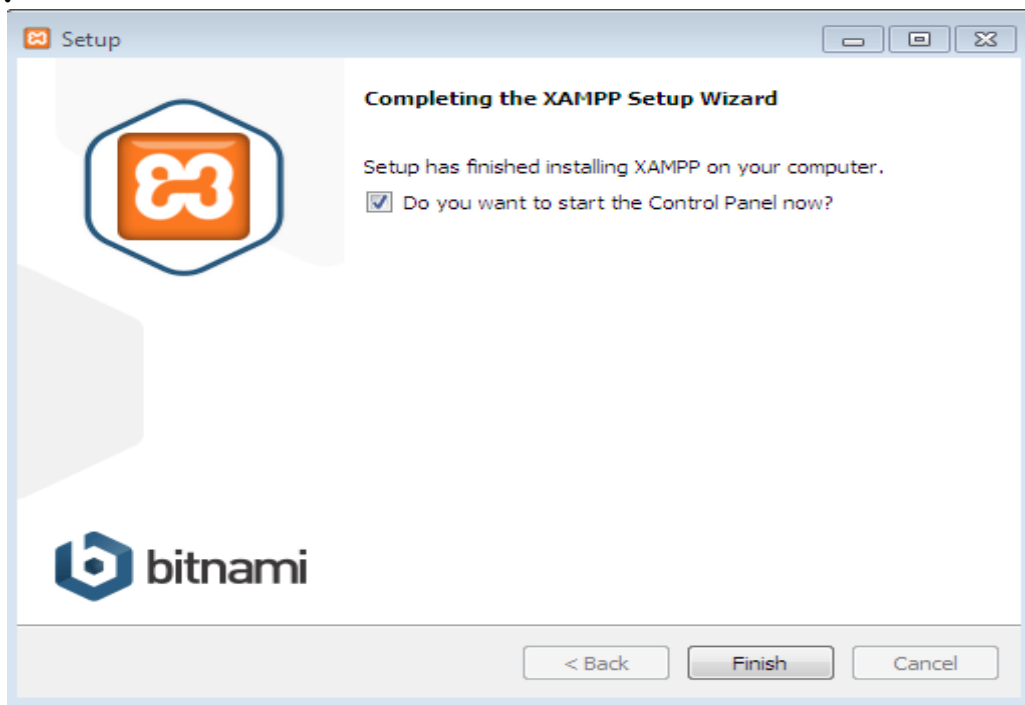
**PROCEDURE:**

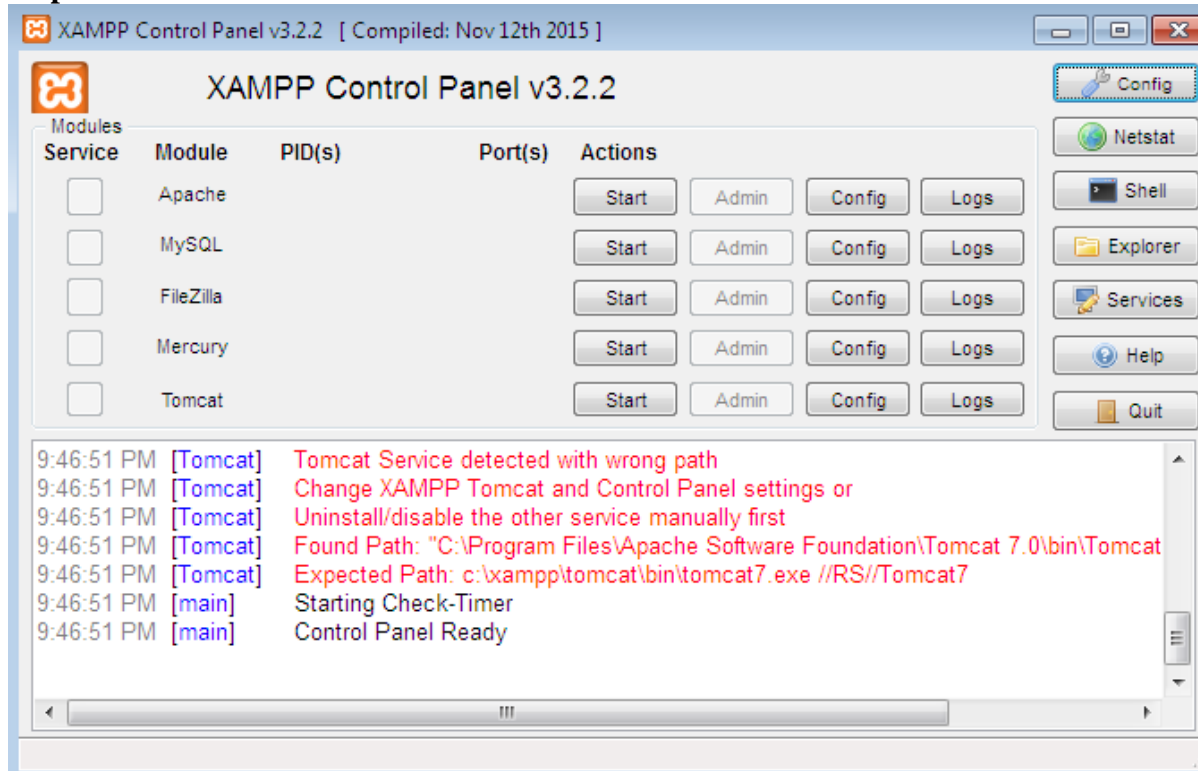
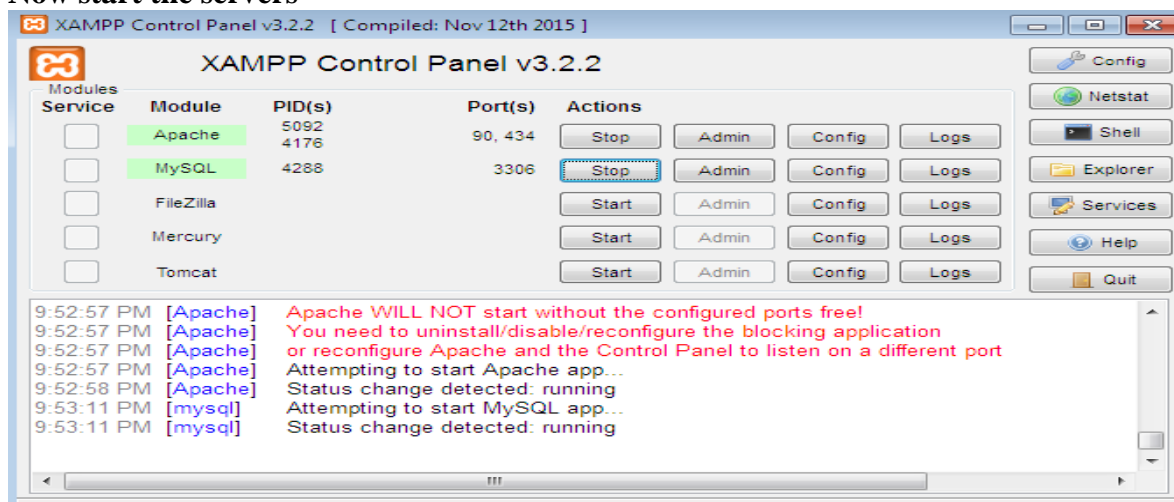
XAMPP INSTALLATION STEPS:

**Step 1:**

**Step 2:****Step 3:**

**Step 4:****Step 5:**

**Step 6:****Step 7:**

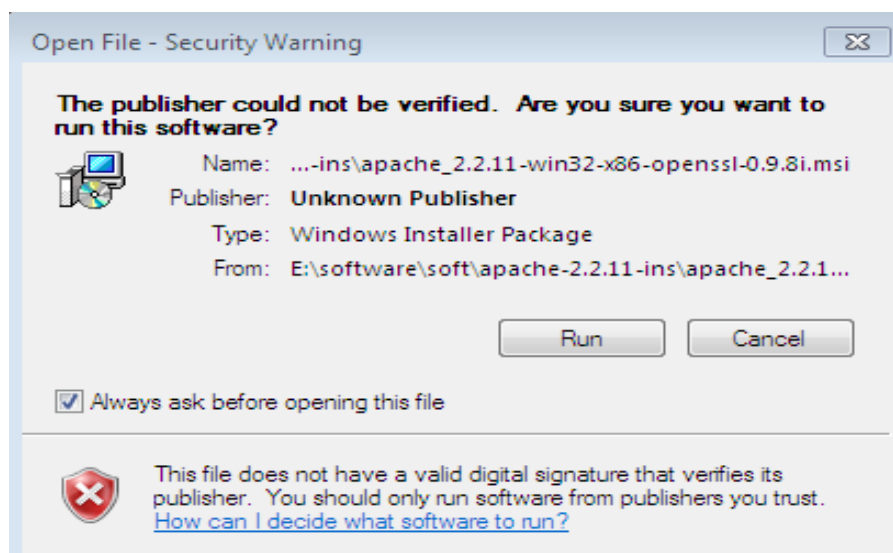
**Step 8:****Step 9:****Now start the servers****In browser type localhost: 8080 in address bar**

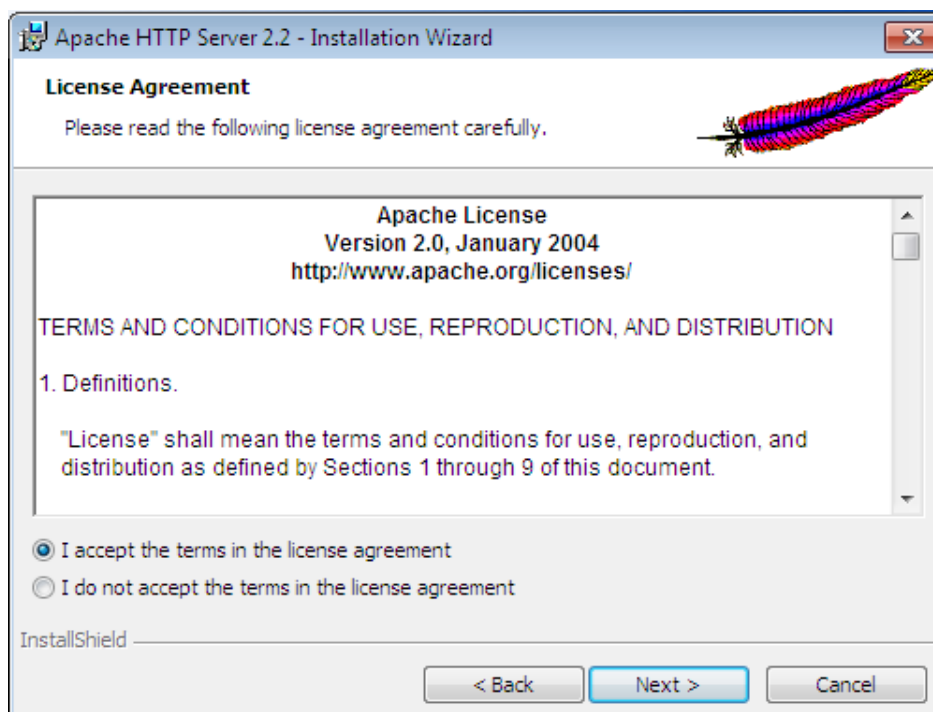
**OBJECTIVE:**

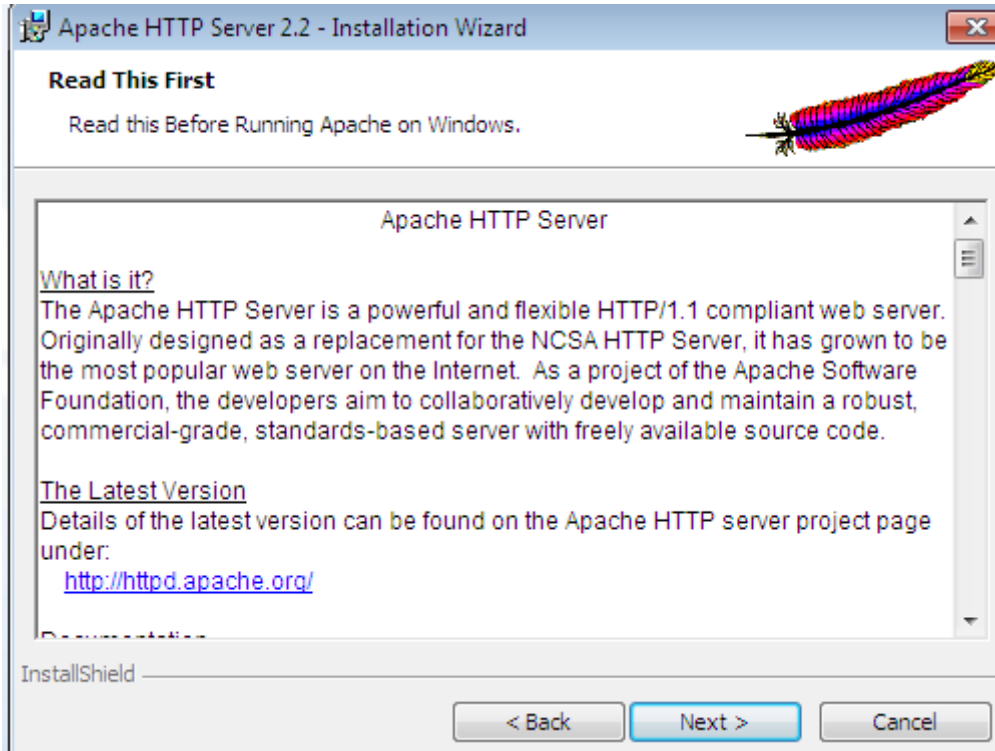
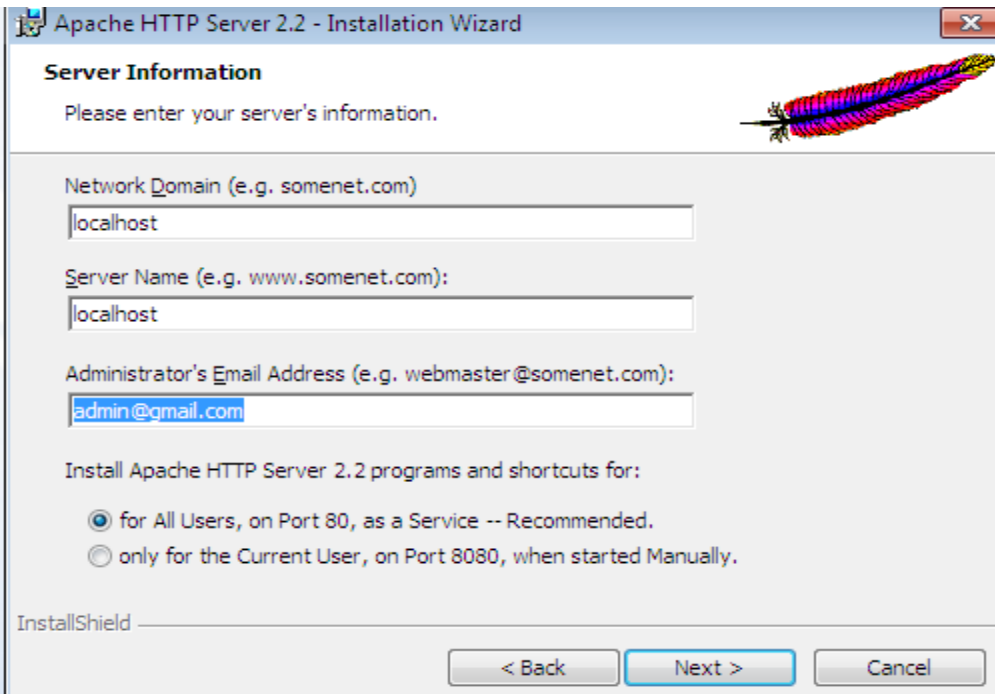
1(b): To Install Apache server installation

**RESOURCES:**

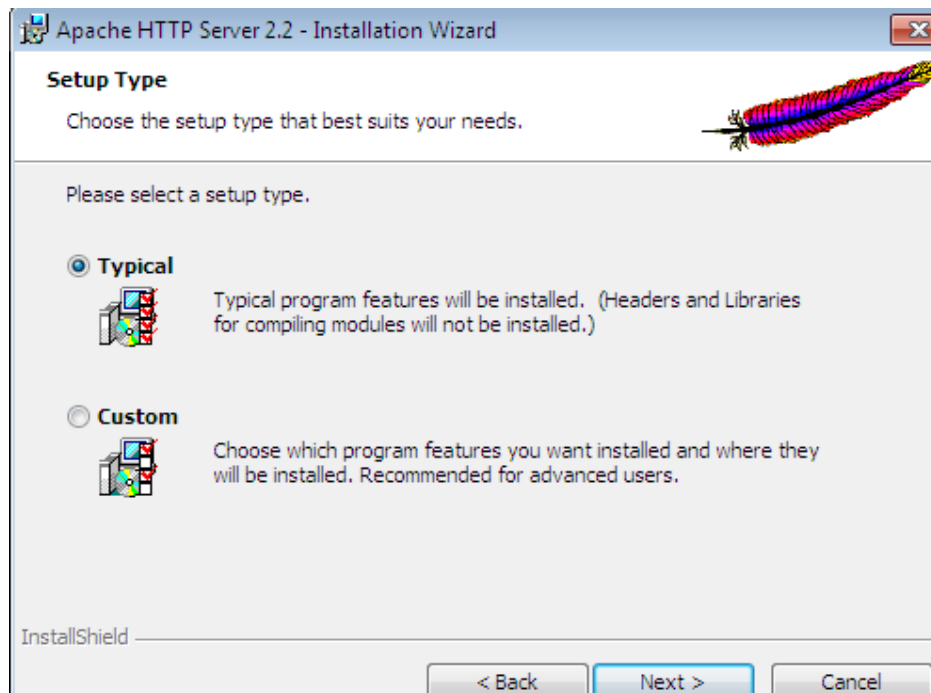
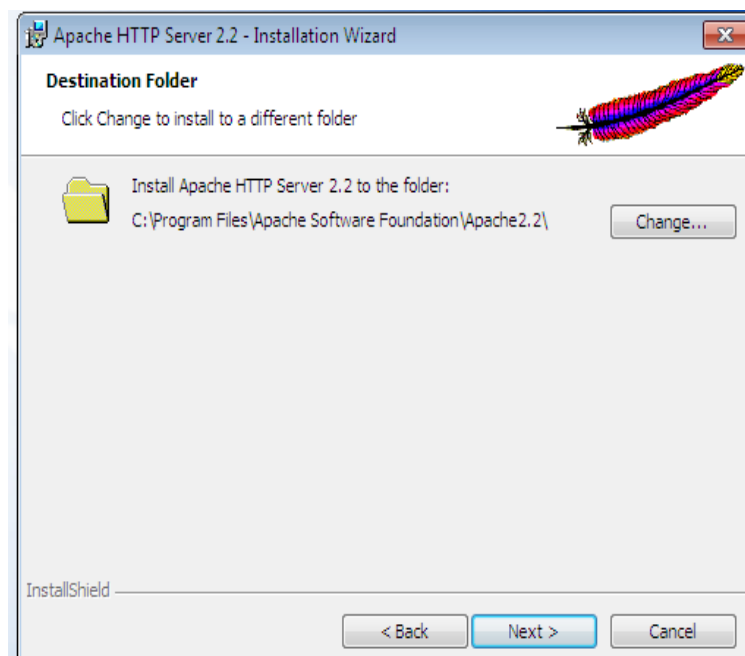
Java Development Kit (JDK 1.6), Tomcat Apache Software

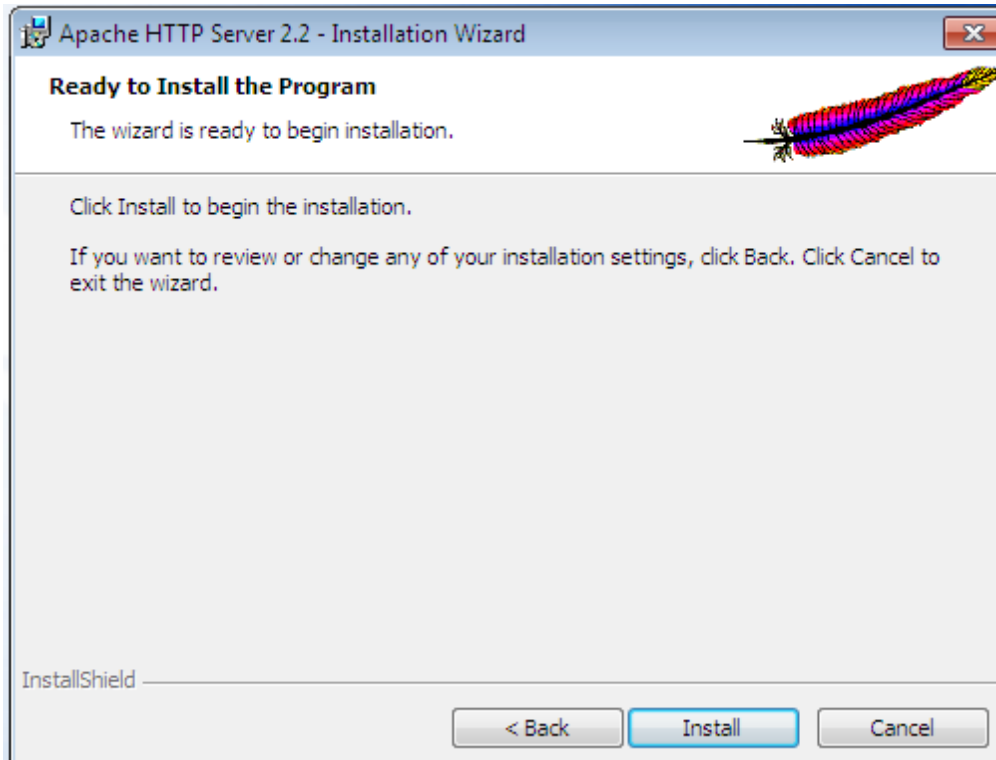
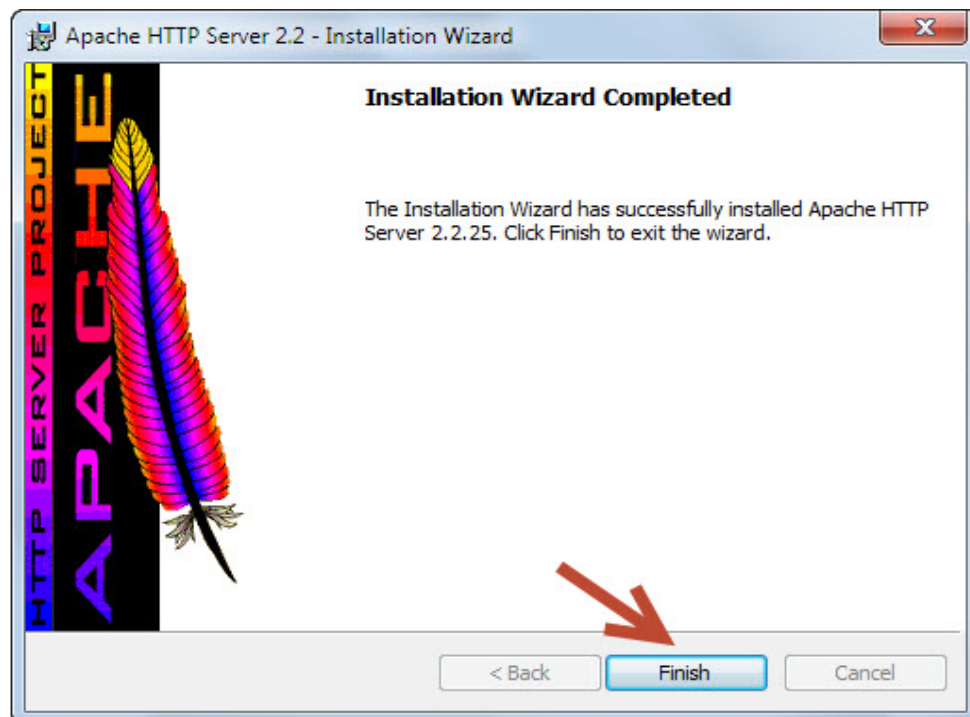
**PROCEDURE:****Step 1:**

**Step 2:****Step 3:**

**Step 4:****Step 5:**



**Step 6:****Step 7:**

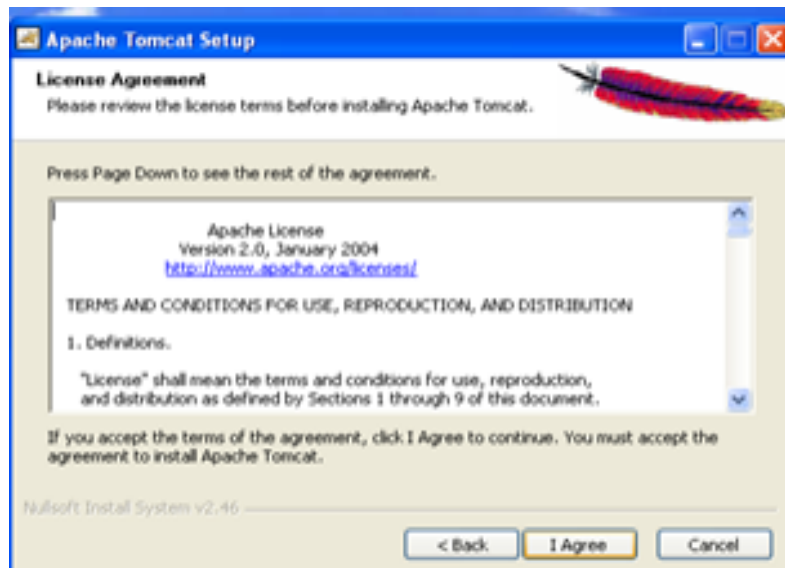
**Step 8:****Step 9:**

**OBJECTIVE:**

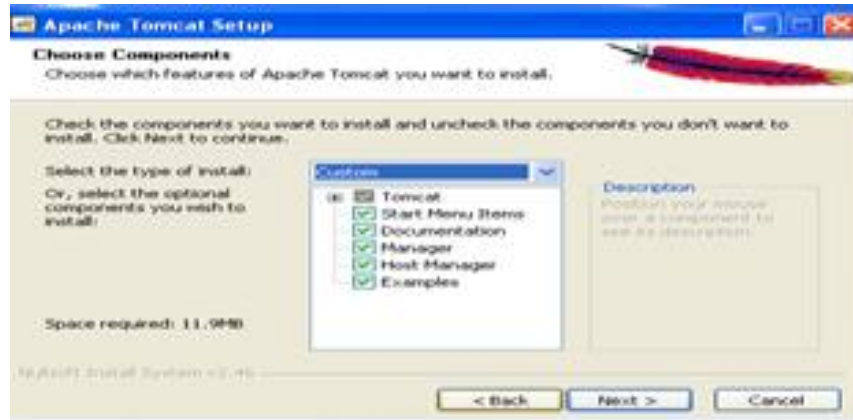
1(c): To Install Apache Tomcat server installation

**RESOURCES:**

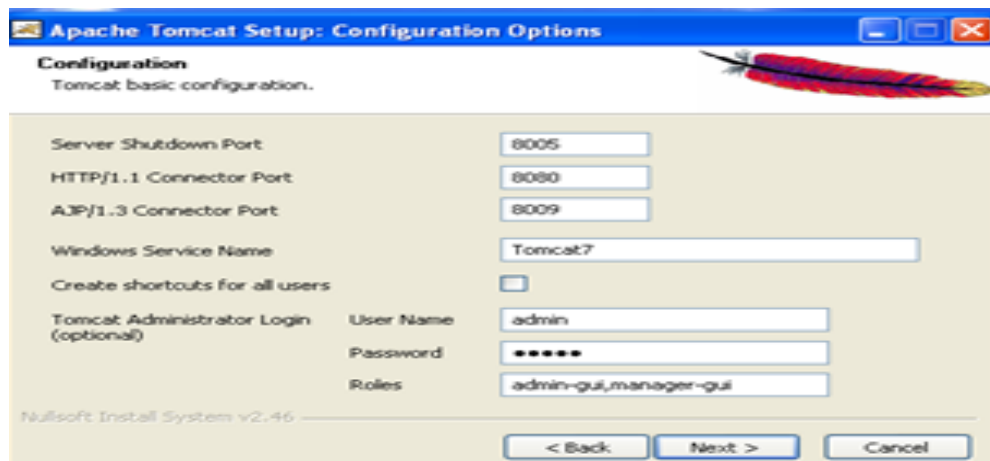
Java Development Kit (JDK 1.6), Tomcat Software

**PROCEDURE:****Step 1:****Step 2:**

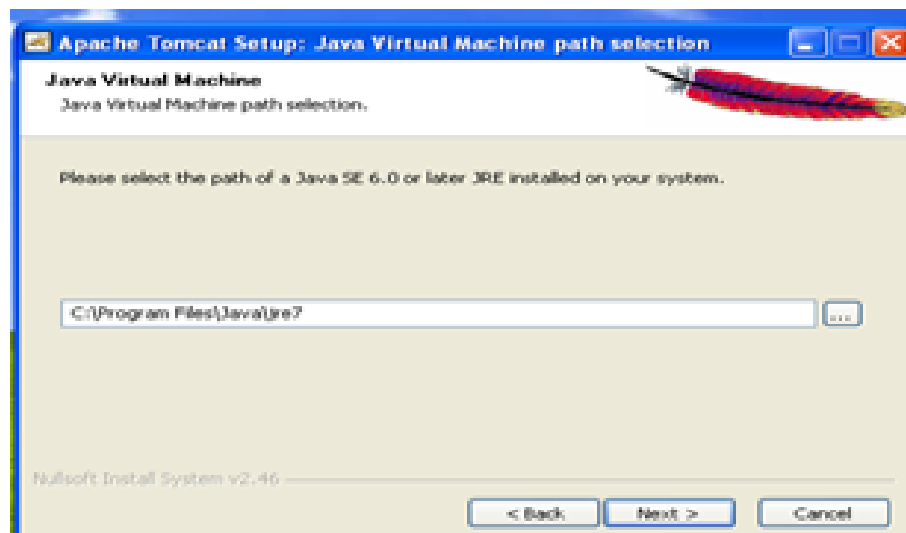
## Step 3:

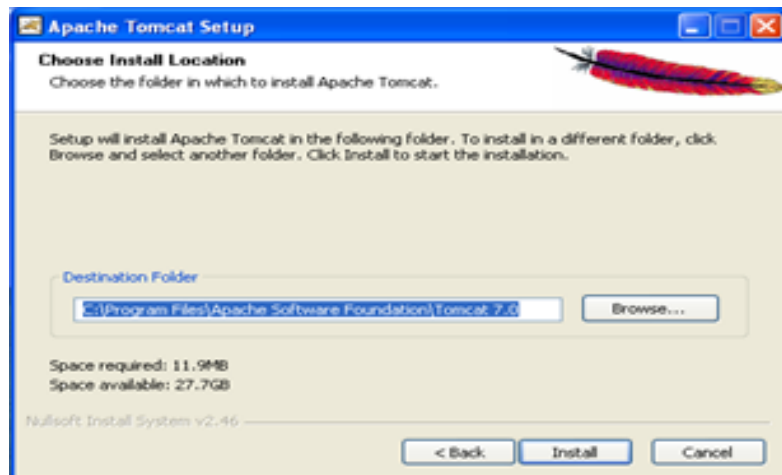
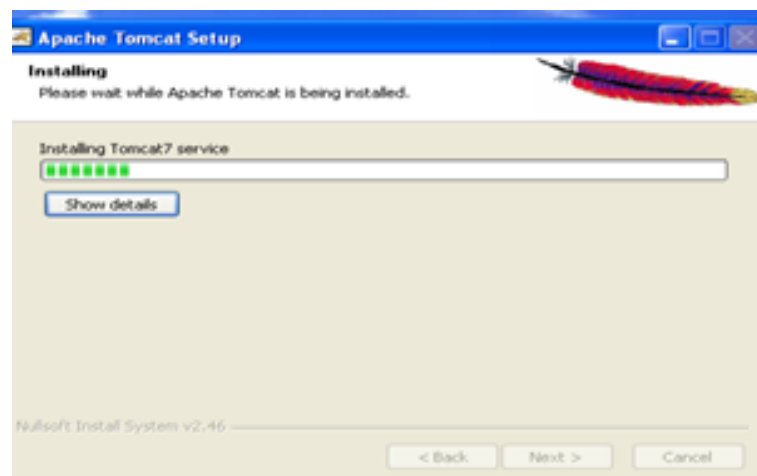


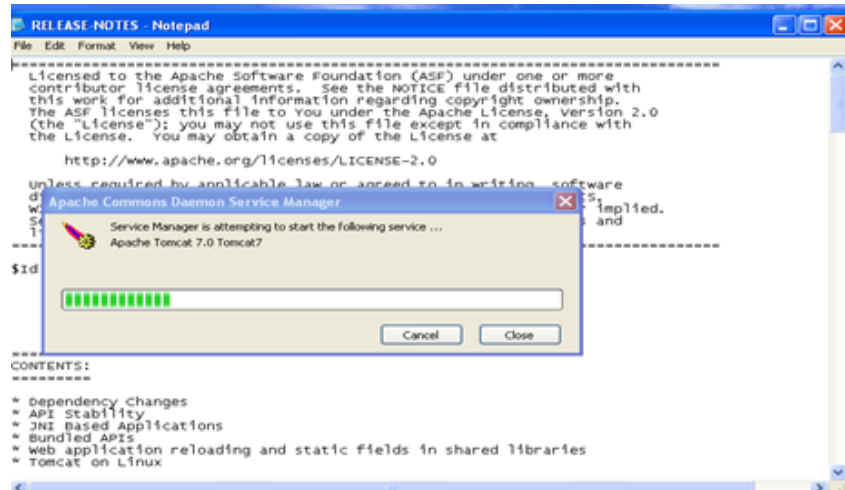
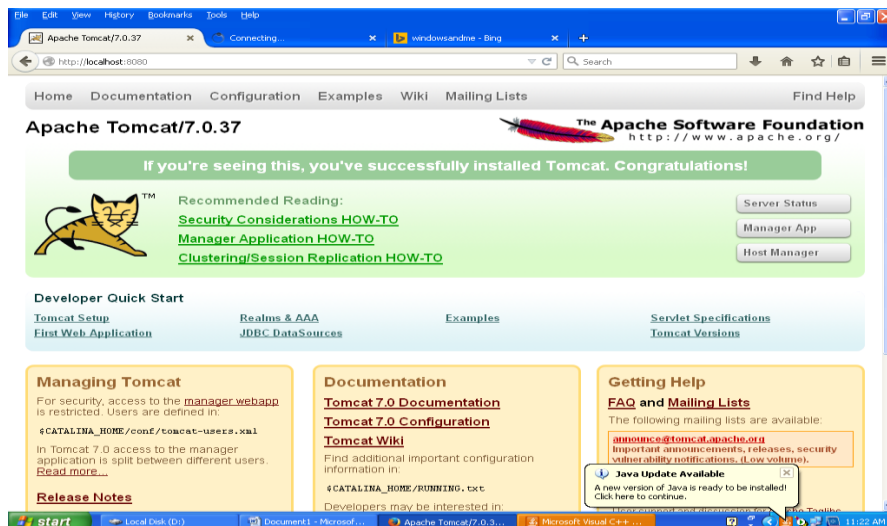
## Step 4:



## Step 5:



**Step 6:****Step7:****Step8:**

**Step9:****Step10:****Note:****Setting****Development Kit**

- Right-click on My Computer, select Properties, then Advanced, then Environment Variables. Then, you would update the PATH value and press the OK button.
- Set PATH and JAVA\_HOME environment variables to refer to the directory that contains java and javac, typically java\_install\_dir/bin and java\_install\_dir respectively.
  - Variable name: PATH
  - Variable value: C:\Program Files\Java\jdk1.7.0\_21\bin\
  - Variable name: JAVA\_HOME
  - Variable value: C:\Program Files\Java\jdk1.7.0\_21
- Setting up Web Server: Tomcat
  - CATALINA\_HOME Environment Variable: C:\Program Files\Apache Software Foundation\Tomcat 7.0
  - CLASSPATH :C:\Program Files\Apache Software Foundation\Tomcat 7.0\Lib\Servlet-API.jar

**OBJECTIVE:**

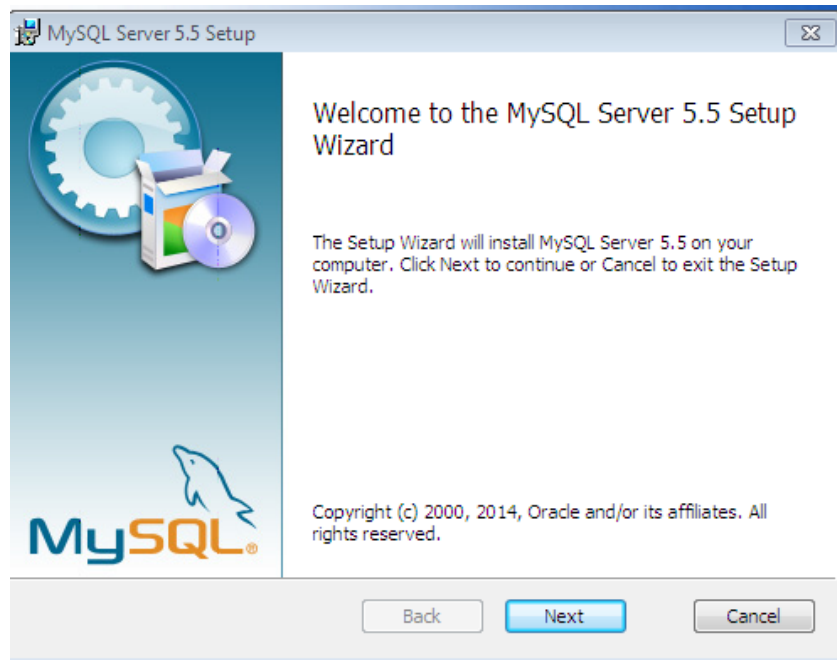
1(d): To Install MYSQL

**RESOURCES:****up Java**

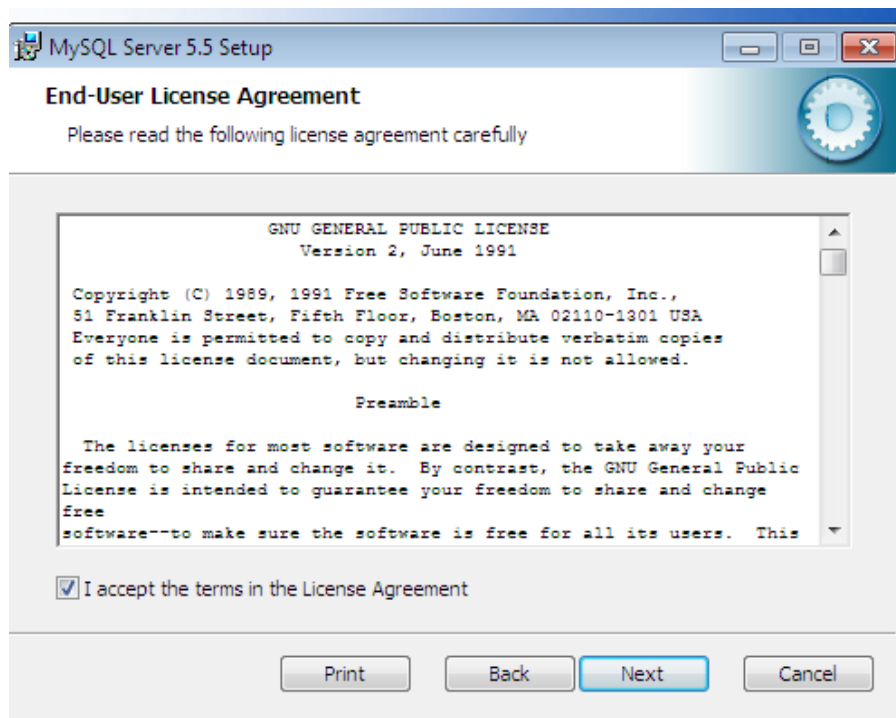
Java Development Kit (JDK 1.6), Tomcat Apache Software.

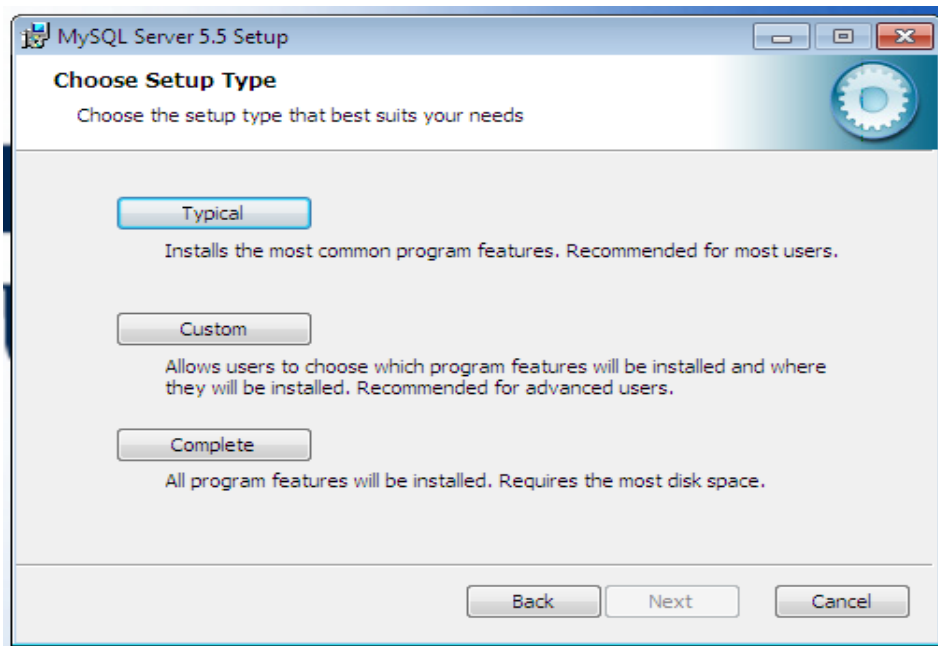
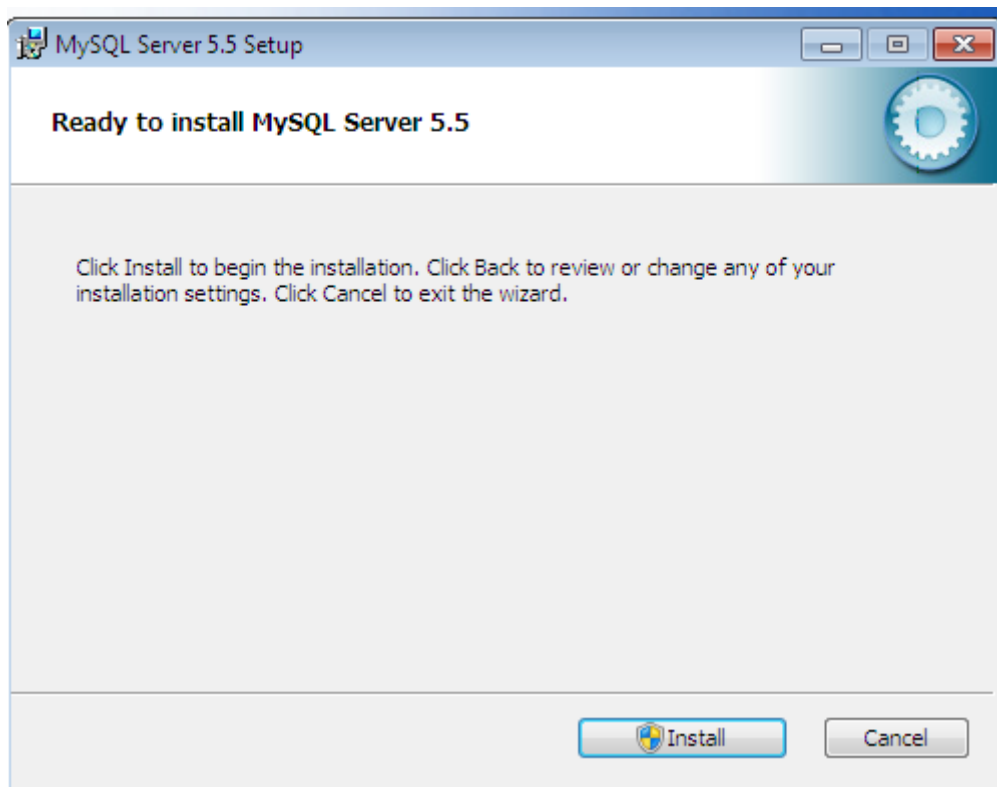
**PROCEDURE:**

**Step 1:**



**Step 2:**



**Step 3:****Step 4:**



**Step 5:**

**Problem Statement:**

A web application for implementation: The user is first served a login page which takes user's name and password. After submitting the details, the server checks these values against the data from a database and takes the following decisions. If name and password match, serves a welcome page with user's full name. If name matches and password doesn't match, then serves "password mismatch" page if name is not found in the database, serves a registration page. Where user's full name is asked and on submitting the full name, it stores the login name, password and full name in the database (hint: use session for storing the submitted login name and password).

**Program:**Login.html

```
<html>
<head>
<title>Login PAGE</title>
</head>
<body style="background-color:pink">
<h1 style="text-align:center">Login PAGE</h1>
<form method="get" action="loginphp.php" style="text-align:center">
Enter name:
<input type="text" name="username" >
<br>
<br>
Enter password:
<input type="text" name="password">
<br>
<br>
<input type="submit" value="submit">
</form>
<p align="left">A.akhila<br>20255A0507</p>
</body>
</html>
```

Loginphp.php

```
<?php
session_start();
?>
<html>
<head>
<title> Redirecting </title>
</head>
<body style="background-color:#cdf2ee;margin-top:150px;">
<center>
<p style="font-size:20px">
<?php
$username=$_REQUEST["username"];
$password=$_REQUEST["password"];
$_SESSION["username"]=$_REQUEST["username"];
$_SESSION["password"]=$_REQUEST["password"];
```

```
$con=mysqli_connect("localhost","root","") or die("Could not connect to server");
$db=mysqli_select_db($con,"le507") or die("query failed:".mysql_error());
$query="select * from logintable";
$result=mysqli_query($con,$query) or die("Query failed:".mysql_error());
$flag=0;
while($row=mysqli_fetch_array($result))
{
if($row['username']==$_REQUEST["username"] &&
$row['password']==$_REQUEST["password"])
{
echo "Welcome $username <br> You are successfully logged in <br> ";
$flag=1;
break;
}
else if($row['username']==$_REQUEST["username"] &&
$row['password']!= $_REQUEST["password"])
{
echo "Sorry We could not login . Password Mismatch";
$flag=1;
break;
}
}
if($flag==0)
{
echo " Could not find you. Enter details to login <br> ";
echo " Enter name full name and password";
include "reg.html";
}
mysqli_close($con);
?>
</p>
</center>
</body>
</html>
```

**Reg.html**

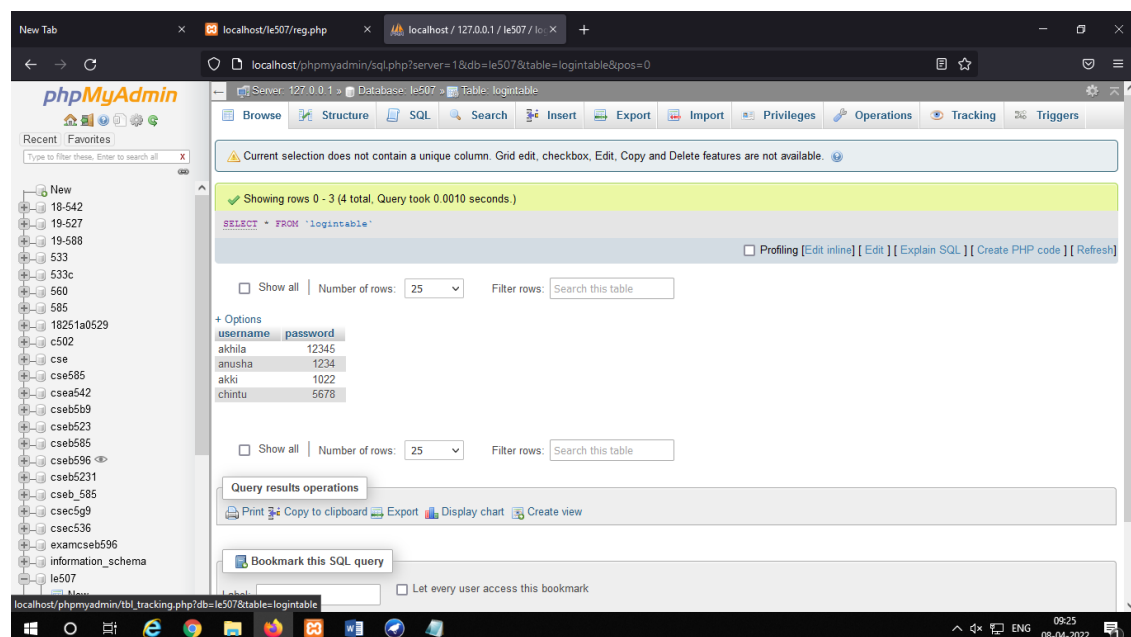
```
<html>
<head>
<title>Reg PAGE</title>
</head>
<body style="background-color:pink">
<h1 style="text-align:center">Reg PAGE</h1>
<form method="post" action="reg.php" style="text-align:center">
Enter name:
<input type="text" name="name" >
<br>
<br>
Enter password:
<input type="text" name="password">
<br>
```

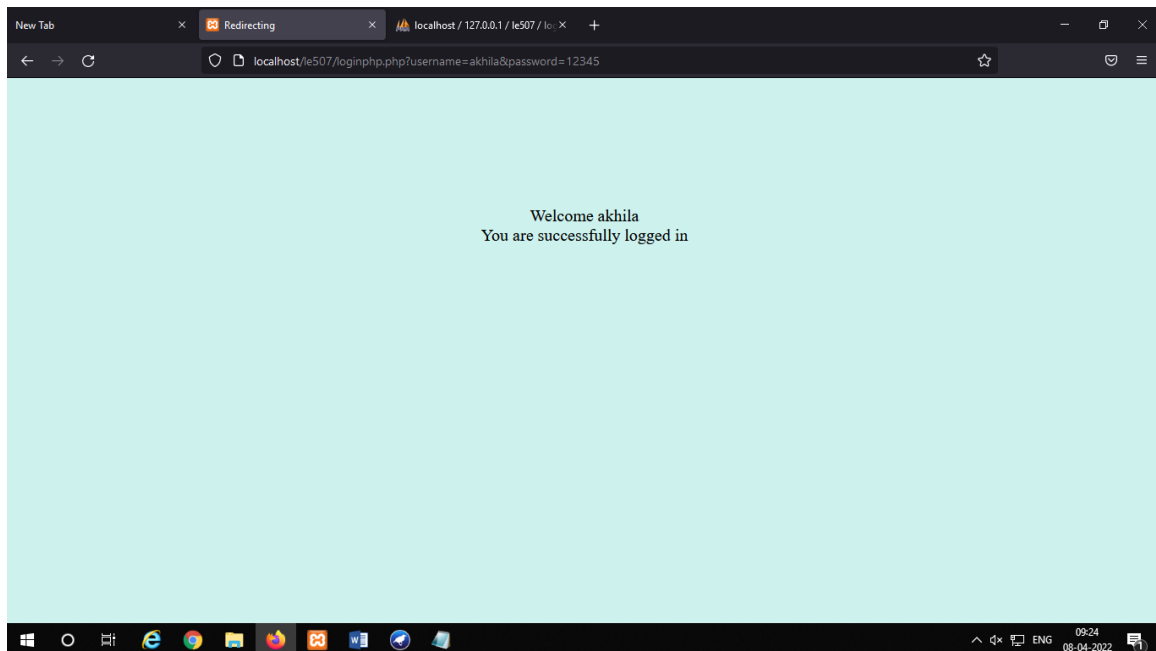
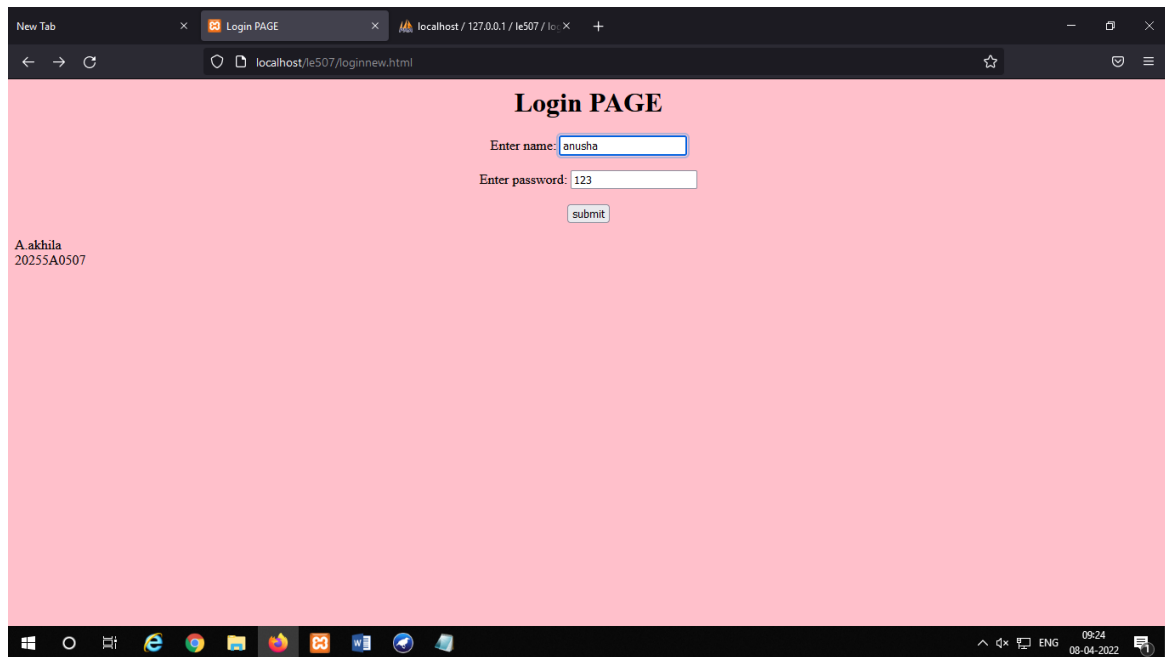
```
<br>
<input type="submit" value="submit">
</form>
</body>
</html>
```

### Reg.php

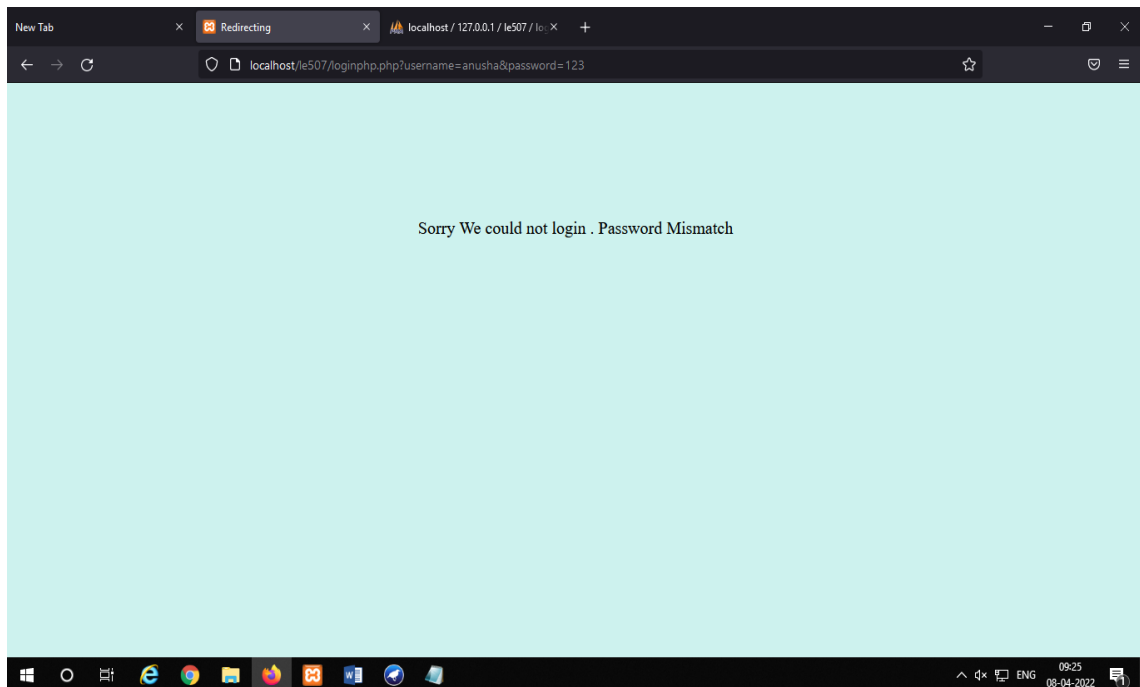
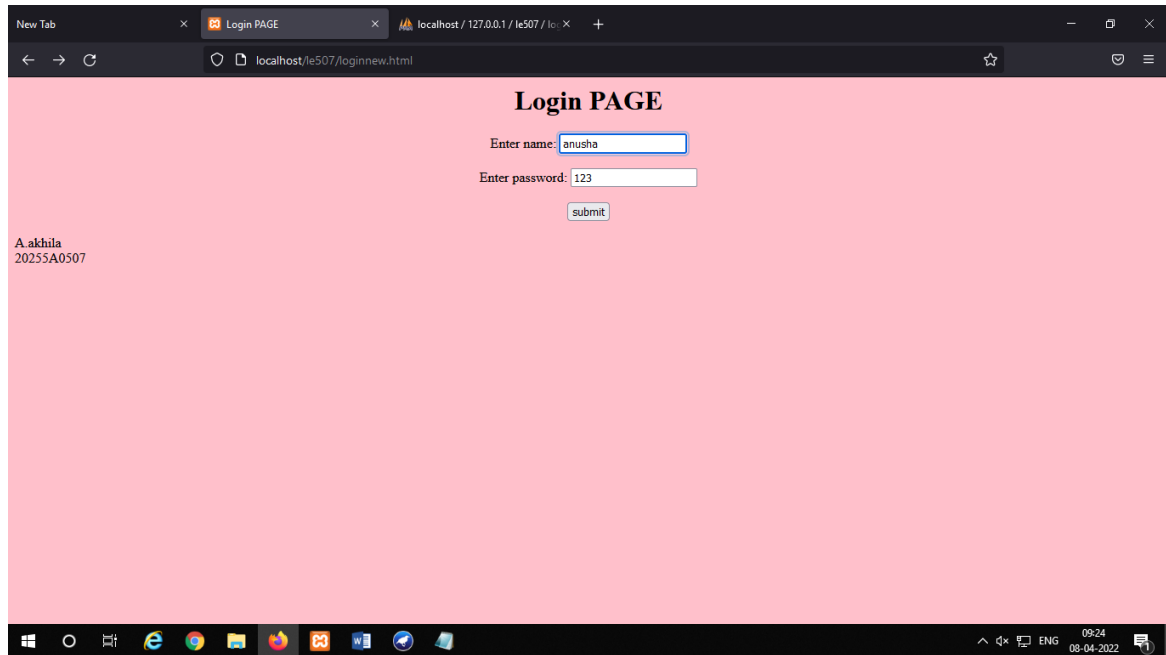
```
<?php
session_start();
$a=$_REQUEST["name"];
$b=$_REQUEST["password"];
$con=mysqli_connect("localhost","root","") or die("Could not connect to server");
$db=mysqli_select_db($con,"le507") or die("query failed:".mysql_error());
$query="insert into logintable values('$a','$b')";
$result= mysqli_query($con,$query) or die("query failed:".mysql_error());
echo $_SESSION["username"]." You are Registered Succesfully";
session_destroy();
mysqli_close($con);
?>
```

### Outputs:

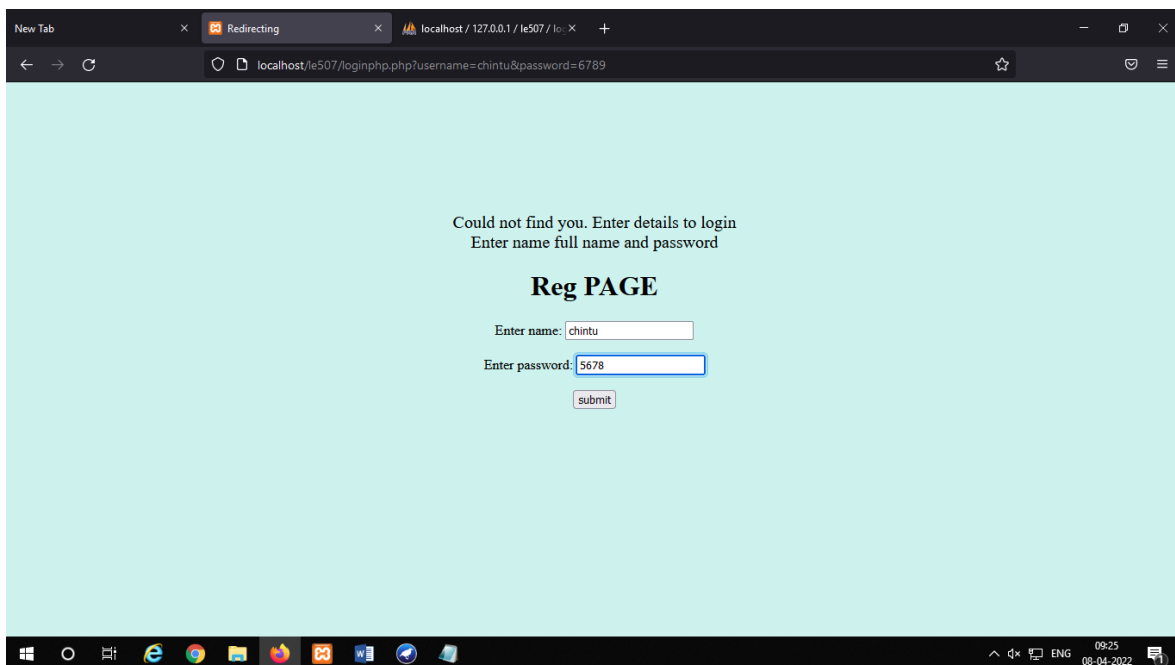
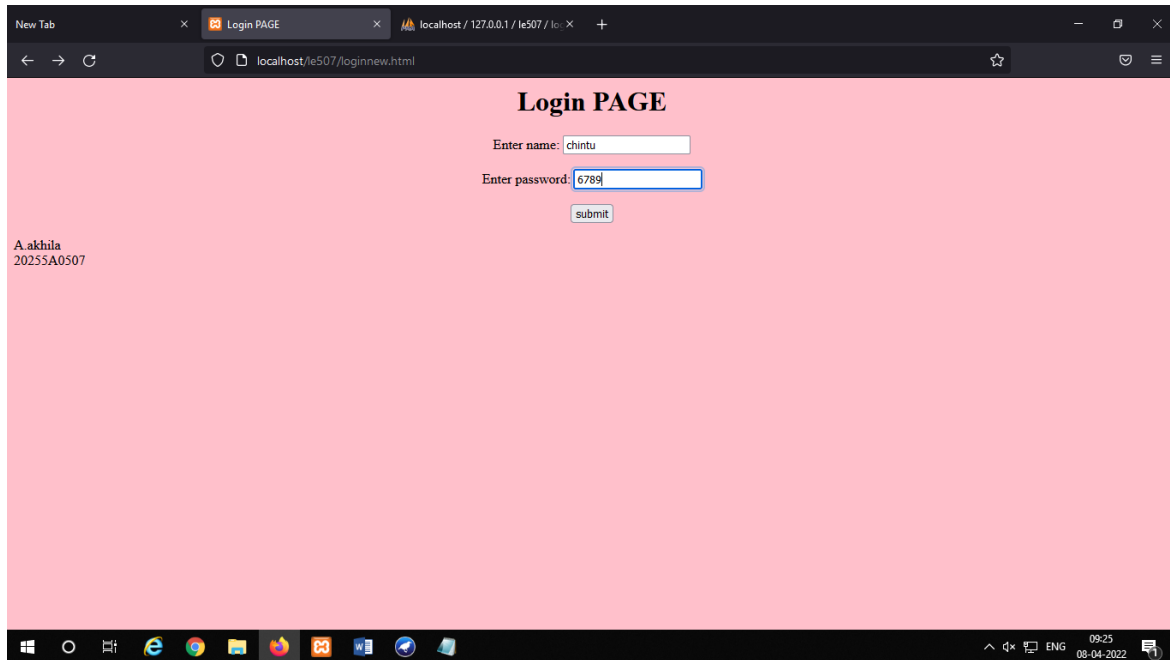


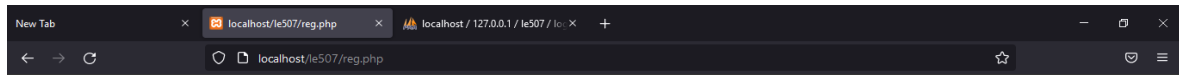
Case 1:

## Case 2:



## Case 3:







**Problem Statement:**

A simple calculator web application that takes two numbers and an operator (+, /, • and. /.) from an HTML page and returns the result page with the operation performed on the operands. Such that it stores each query in a database and checks the database first for the result. If the query is already available in the DB, it returns the value that was previously computed (from DB) or it computes the result and returns it after storing the new query and result in DB.

**Program:****Calculator.html**

```
<html>
<head>
  <title>calculator</title>
</head>
<body style="background: yellow">
<center>
  <h1 style="color: navy; text-align: center; ">Calculator</h1>
  <form method="post" action="calci.php">
    <label for="num1"><b>Number1:</b></label>
    <input type="number" placeholder=" Enter Number1 " name="num1" required>
    <br><br>
    <label for="num2"><b>Number2:</b></label>
    <input type="number" placeholder="Enter Number2" name="num2" required>
    <br><br>
    <label ><b> Select Operation: </b> </label>
    <select name="operator">
      <option value="+">+</option>
      <option value="-">-</option>
      <option value="*">*</option>
      <option value="/">/</option>
      <option value="%">%</option>
    </select>
    <input type="submit" name="s1" >
  <br>
</form>
</center>
<h4>A.Akhila<br><br>20255A0507<br><br> 01-04-2022</h4>
</body>
</html>
```

**Calci.php**

```
<?php
if(isset($_POST["s1"])){
  $n1=$_POST["num1"];
  $n2=$_POST["num2"];
  $op=$_POST["operator"];
  $conn = mysqli_connect("localhost","root","") or die("Connection failed: ");
  $db=mysqli_select_db($conn,"akhila") or die("Database not selected");
```

```

$res=mysqli_query($conn,"SELECT * from `calculator` where '$n1'=num1 &&
'$n2'=num2 && '$op'=operator");
if(mysqli_num_rows($res)!=0){
    while($x=mysqli_fetch_array($res)){
        echo "RESULT".$x['result'];
        echo "<br> (From Database)";
    }
}
else{
    switch($op){
        case '+': $res=$n1+$n2;
        break;
        case '-': $res=$n1-$n2;
        break;
        case '*': $res=$n1*$n2;
        break;
        case '/': $res=$n1/$n2;
        break;
        case '%': $res=$n1%$n2;
        break;
    }
    mysqli_query($conn,"insert into calculator values($n1,'$op',$n2,$res)");
    echo "RESULT : $res <br> (from computation)";
}
}
?>

```

Output:

Showing rows 0 - 3 (4 total. Query took 0.0006 seconds.)

SELECT \* FROM `calculator`

Options

| num1 | operator | num2 | result |
|------|----------|------|--------|
| 2    | +        | 4    | 6      |
| 2    | +        | 10   | 12     |
| 22   | -        | 10   | 12     |
| 15   | /        | 10   | 2      |

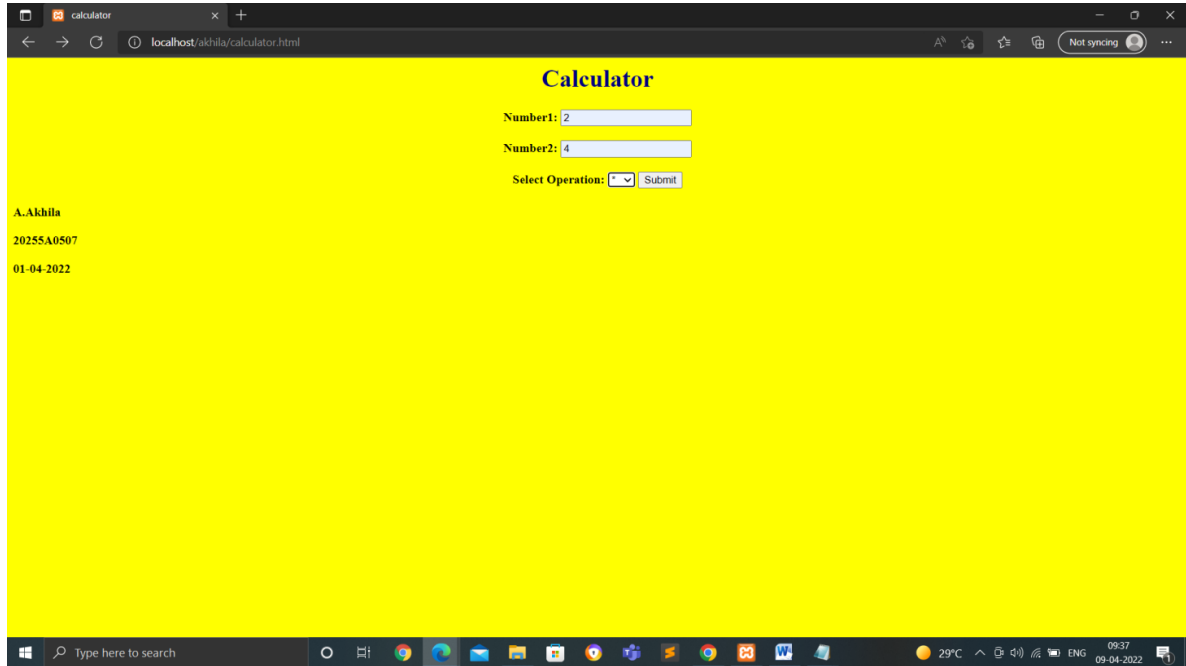
Query results operations: Print, Copy to clipboard, Export, Display chart, Create view

Bookmark this SQL query

Label:  ☐ Let every user access this bookmark

Bookmark this SQL query

## Case1:



## Case 2:

