

Ques 1:

CODE- index.html

```
<html>
```

```
<head>
```

```
<body>
```

```
<form action="login" method="post">
```

```
Name:<input type="text" name="userName"/><br/>
```

```
Password:<input type="password" name="userPass"/><br/>
```

```
<input type="submit" value="login"/>
```

```
</form>
```

```
</body>
```

```
</html>
```

```
Login.java
```

```
import java.io.*;
```

```
import javax.servlet.*;
```

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

```
public class Login extends HttpServlet {
```

```
    public void doPost(HttpServletRequest req,  
                        HttpServletResponse res)
```

```
throws ServletException, IOException
```

```
{
```

```
    // The method to receive client requests  
    // which are sent using 'post'
```

```
    res.setContentType("text/html");  
    PrintWriter out = response.getWriter();
```

```
    // fetches username  
    String n = request.getParameter("userName");
```

```
    // fetches password  
    String p = request.getParameter("userPass");
```

```
    if(p.equals("Thanos")){
```

```
        RequestDispatcher rd =
```

```
request.getRequestDispatcher("servlet2");
```

```
        // Getting RequestDispatcher object  
        // for collaborating with servlet2
```

```
        // forwarding the request to servlet2  
        rd.forward(request, response);
```

```
    }
```

```
else{
```

```
    out.print("Password mismatch");
```

```
    RequestDispatcher rd =
```

```
request.getRequestDispatcher("/index.html");
```

```
    rd.include(request, response);
```

```
    }
```

```
}
```

```
}
```

Welcome.java

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

public class Welcome extends HttpServlet {

    public void doPost(HttpServletRequest request,
                        HttpServletResponse response)
        throws ServletException, IOException
    {

        response.setContentType("text/html");
        PrintWriter out = response.getWriter();

        // fetches username
        String n = request.getParameter("userName");

        // prints the message
        out.print("Welcome " + n);
    }
}
```

Web.xml

```
<web-app>
  <servlet>
    <servlet-name>Login</servlet-name>
    <servlet-class>Login</servlet-class>
  </servlet>
  <servlet>
    <servlet-name>WelcomeServlet</servlet-name>
    <servlet-class>Welcome</servlet-class>
  </servlet>

  <servlet-mapping>
    <servlet-name>Login</servlet-name>
    <url-pattern>/servlet1</url-pattern>
  </servlet-mapping>
  <servlet-mapping>
    <servlet-name>WelcomeServlet</servlet-name>
    <url-pattern>/servlet2</url-pattern>
  </servlet-mapping>

  <welcome-file-list>
    <welcome-file>index.html</welcome-file>
  </welcome-file-list>
</web-app>
```

Ques 2:

```
public class Book
{
    private String bookName;
    private int bookPrice;
    private String authorName;

    public void setBookName(String bookName)
    {
        this.bookName=bookName;
    }

    public String getBookName()
    {
        return this.bookName;
    }

    public void setBookPrice(int bookPrice)
    {
        this.bookPrice=bookPrice;
    }

    public int getBookPrice()
    {
        return this.bookPrice;
    }

    public void setAuthorName(String authorName)
    {
        this.authorName=authorName;
    }

    public String getAuthorName()
    {
        return this.authorName;
    }
}
```

```
import java.util.Scanner;
public class TestBook
{
    public static void main (String[] args) {
        Scanner sc=new Scanner(System.in);

        System.out.println("Enter the Book name:");
        String bookname=sc.nextLine();

        System.out.println("Enter the price:");
        int price=sc.nextInt();
        sc.nextLine();

        System.out.println("Enter the Author name:");
        String authorname=sc.nextLine();

        Book obj=new Book();
        obj.setBookName(bookname);
        obj.setBookPrice(price);
        obj.setAuthorName(authorname);
        System.out.println("Book Details");
        System.out.println("Book Name :"+obj.getBookName());
        System.out.println("Book Price :"+obj.getBookPrice());
        System.out.println("Author Name :"+obj.getAuthorName());
    }
}
```
