```
Write a Servlet application to demonstrate to demonstrate the use of Filters for
preprocessing of request and response.
MyFilter.java =>
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default.txt to change this license
* Click nbfs://nbhost/SystemFileSystem/Templates/Classes/Class.java
to edit this template
package kk;
import jakarta.servlet.Filter;
import jakarta.servlet.FilterChain;
import jakarta.servlet.FilterConfig;
import jakarta.servlet.ServletException;
import jakarta.servlet.ServletRequest;
import jakarta.servlet.ServletResponse;
import java.io.IOException;
/**
 * @author CHARUSAT
public class MyFilter implements Filter {
    @Override
    public void init(FilterConfig filterConfig)
            throws ServletException {
    }
    @Override
    public void doFilter(ServletRequest request, ServletResponse
response, FilterChain fc)
            throws IOException, ServletException {
        System.out.println("Filter Before Servlet");
        //....
        //....
        fc.doFilter(request, response);
        System.out.println("Filter After Servlet");
        //....
        //....
    }
    @Override
    public void destroy() {
```

```
}
}
Index.html=>
<!DOCTYPE html>
<!--
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template
-->
<html>
  <head>
    <title>TODO supply a title</title>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
  </head>
  <body>
    <div class =" container">
      <h1><a href="ProfileServlet">Go to PROFILE Servlet</a></h1>
      <h1><a href="OrderServlet">Go to ORDER Servlet</a></h1>
    </div>
  </body>
</html>
ProfileServlet =>
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package kk;
import jakarta.servlet.ServletException;
import jakarta.servlet.http.HttpServlet;
import jakarta.servlet.http.HttpServletRequest;
import jakarta.servlet.http.HttpServletResponse;
import java.io.IOException;
import java.io.PrintWriter;
public class ProfileServlet extends HttpServlet {
    @Override
```

```
protected void doGet(HttpServletRequest request,
HttpServletResponse response)
            throws ServletException, IOException {
        response.setContentType("text/html");
        PrintWriter out = response.getWriter();
        System.out.println("Profile Servlet Executed.....");
        out.println("<html>");
        out.println("<head>");
        out.println("<title> Servlet ProfileServlet </title>");
        out.println("</head>");
        out.println("<body bgcolor = 'teal'>");
        out.println("<h1>Welcome to Profile Page</h1>");
        out.println("<h1>This is Profile Page</h1>");
        out.println("</body>");
        out.println("</html>");
    }
}
OrderServlet.java =>
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edit this template
*/
package kk;
import jakarta.servlet.ServletException;
import jakarta.servlet.http.HttpServlet;
import jakarta.servlet.http.HttpServletRequest;
import jakarta.servlet.http.HttpServletResponse;
import java.io.IOException;
import java.io.PrintWriter;
public class OrderServlet extends HttpServlet {
    @Override
    protected void doGet(HttpServletRequest request,
HttpServletResponse response)
            throws ServletException, IOException {
        response.setContentType("text/html");
        PrintWriter out = response.getWriter();
```

```
System.out.println("Order Servlet Executed....");
  out.println("<html>");
  out.println("<head>");
  out.println("</head>");
  out.println("</head>");
  out.println("<body bgcolor = 'cyan'>");
  out.println("<hl> This is OrderServlet </hl>");
  out.println("</body>");
  out.println("</body>");
  out.println("</html>");
}
```

- Q11. Write a Servlet application to demonstrate Authentication Using Filters through FilterConfig Interface.
- Q12. Write a servlet application to Handle session using Session Tracking Techniques
 - 1. Hidden Form Fields
 - 2. URL rewriting
 - 3. Session
 - 4. Cookies
- Write a CRUD application to create Login page which accept username & password from the user then compare the credentials of user from Database, if the credentials are valid then redirect to List page otherwise control should be on the Login Page. On the List page handle create, insert, update and delete operation on Student Table and display the details on List page using Servlet.

DataBase Table;

```
create table Student5(
id int primary key,
name varchar2(20),
age int,
password varchar2(16)
```

Login.java:

/*

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*/

package Student;

import jakarta.servlet.ServletException;

```
import jakarta.servlet.http.HttpServlet;
import jakarta.servlet.http.HttpServletRequest;
import jakarta.servlet.http.HttpServletResponse;
import java.io.IOException;
import java.io.PrintWriter;
public class Login extends HttpServlet {
  @Override
  protected void doGet(HttpServletRequest request, HttpServletResponse response)
throws ServletException, IOException {
    response.setContentType("text/html");
    PrintWriter out = response.getWriter();
    out.println("<html>");
    out.println("<body bgcolor = 'LightSkyBlue'>");
    out.println("<center>");
    out.println("<h1>Login Page</h1>");
    out.println("<form action='Validate'>");
    out.println("");
    out.println("UserName : <input type='text'
name='username'>");
    out.println("Password : <input type='password'
name='password'>'');
    out.println("<input type='submit'
value='Submit'>");
    out.println("");
    out.println("</form>");
    out.println("</center></body></html>");
Validate.java:
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this template
package Student;
import jakarta.servlet.ServletException;
import jakarta.servlet.http.HttpServlet;
import jakarta.servlet.http.HttpServletRequest;
import jakarta.servlet.http.HttpServletResponse;
import java.io.IOException;
import java.io.PrintWriter;
import java.sql.*;
```

```
public class Validate extends HttpServlet {
  @Override
  protected void doGet(HttpServletRequest request, HttpServletResponse response)
throws ServletException, IOException {
     response.setContentType("text/html");
     PrintWriter out = response.getWriter();
    out.println("<html>");
    out.println("<body>");
     String username=request.getParameter("username");
    String password =request.getParameter("password");
       String pass = "";
       String name = "";
    Connection con=null;
    try
       Class.forName("oracle.jdbc.OracleDriver");
DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:XE", "system",
"system");
       //Building query
       String query="select * from Student5 where name="+username;
       Statement stmt = con.createStatement();
       ResultSet rs = stmt.executeQuery(query);
      while (rs.next()) {
         pass = rs.getString("password");
       name = rs.getString("name");
       rs.close();
       stmt.close();
       con.close();
    catch(Exception e){
       out.println(e);
    if(password.equals(pass) && username.equals(name)){
    response.sendRedirect("List");
    else\{
       out.println("Enter Valid ID or Password");
     out.println("</body>");
     out.println("</html>");
```

```
}
List.java:
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this template
package Student;
import java.sql.*;
import jakarta.servlet.ServletException;
import jakarta.servlet.http.HttpServlet;
import jakarta.servlet.http.HttpServletRequest;
import jakarta.servlet.http.HttpServletResponse;
import java.io.IOException;
import java.io.PrintWriter;
public class List extends HttpServlet {
  @Override
  protected void doGet(HttpServletRequest request, HttpServletResponse response)
throws ServletException, IOException {
        response.setContentType("text/html");
     PrintWriter out = response.getWriter();
    out.println("<html>");
    out.println("<body bgcolor='cyan'>");
    out.println("<center><h1> CRUD Operation On Student Table<h1>
<Center>");
    Connection con = null;
    try {
       //Loading driver
       Class.forName("oracle.jdbc.OracleDriver");
       //Building bridge between java & database
       con =
DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:XE", "system",
"system");
       //Building query
       String query = "Select * from Student5";
       //Firing query to database
       Statement stmt = con.createStatement();
```

```
ResultSet rs = stmt.executeQuery(query);
      out.println("");
      out.println("");
      out.println(" Student Sno");
      out.println(" Student Sname");
      out.println(" Student Sage");
      out.println("Update");
      out.println("Delete");
      out.println("");
      while (rs.next()) {
         String id = rs.getString("id");
         String age = rs.getString("age");
         String name = rs.getString("name");
         out.println("");
         out.println("<td>" + id + " </td>");
         out.println("" + name + "");
         out.println("<td>" + age + "</td>");
         out.println("<td><a href = 'Update?id=" + id + "'>Update</a></td>");
         out.println("<td><a href = 'Delete?id=" + id + "' > Delete </a> </td>");
      out.println("");
      out.println("<br/>Center><a href = 'Add'>Add New
Student</a></Center><br/>');
      rs.close();
      stmt.close();
      con.close();
    } catch (Exception e) {
      out.println(e);
    out.println("</body>");
    out.println("</html>");
Add.java:
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this template
package Student;
import jakarta.servlet.ServletException;
import jakarta.servlet.http.HttpServlet;
import jakarta.servlet.http.HttpServletRequest;
```

```
import jakarta.servlet.http.HttpServletResponse;
import java.io.IOException;
import java.io.PrintWriter;
import java.sql.*;
public class Add extends HttpServlet {
  @Override
  protected void doGet(HttpServletRequest request, HttpServletResponse response)
throws ServletException, IOException {
    response.setContentType("text/html");
    PrintWriter out = response.getWriter();
    out.println("<html>");
    out.println("<body bgcolor = 'LightSkyBlue'>");
    out.println("<center><h1>Insert Student <h1> <Center>");
    Connection con=null;
    int id=0;
    try
      Class.forName("oracle.jdbc.OracleDriver");
      con =
DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:XE", "system",
"system");
      String query="Select max(id) maxnum from Student5";
      //Firing query to database
      Statement stmt=con.createStatement();
      ResultSet rs=stmt.executeQuery(query);
      while(rs.next())
         id=rs.getInt("maxnum");
      rs.close();
      stmt.close();
      con.close();
    catch(Exception e)
      System.out.println(e);
    id++:
    out.println("<form action = 'Insert'>");
    out.println("");
    out.println("Student No:" + id + "<input type = 'hidden'
name = 'id' value =""+id+""> ");
```

```
out.println("Student Name:<input type='text'
name='name'>'');
    out.println("Student Age:<input type='text'
name='age'>");
    out.println("Password:<input type='text'
name='password'>");
    out.println("<input type='submit'
value='Submit'>");
    out.println("");
    out.println("</form>");
Insert.java:
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this template
*/
package Student;
import jakarta.servlet.ServletException;
import jakarta.servlet.http.HttpServlet;
import jakarta.servlet.http.HttpServletRequest;
import jakarta.servlet.http.HttpServletResponse;
import java.io.IOException;
import java.io.PrintWriter;
import java.sql.*;
public class Insert extends HttpServlet {
  @Override
  protected void doGet(HttpServletRequest request, HttpServletResponse response)
throws ServletException, IOException {
  response.setContentType("text/html");
    PrintWriter out = response.getWriter();
    out.println("<html>");
    out.println("<body>");
    out.println("<center><h1>Insert Student <h1> <Center>");
    String id=request.getParameter("id");
    String name=request.getParameter("name");
    String age=request.getParameter("age");
    String password =request.getParameter("password");
    Connection con=null;
    try
```

```
Class.forName("oracle.jdbc.OracleDriver");
       con =
DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:XE", "system",
"system");
       //Building query
       String query="Insert into Student5 values(" + id + "," + name + "'," + age +
",""+password+"")";
       Statement stmt=con.createStatement();
       stmt.executeUpdate(query);
       stmt.close();
       con.close();
    catch(Exception e){
       out.println(e);
    response.sendRedirect("List");
    out.println("</body>");
    out.println("</html>");
Update.java:
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this template
package Student;
import jakarta.servlet.ServletException;
import jakarta.servlet.http.HttpServlet;
import jakarta.servlet.http.HttpServletRequest;
import jakarta.servlet.http.HttpServletResponse;
import java.io.IOException;
import java.io.PrintWriter;
import java.sql.*;
public class Update extends HttpServlet {
  @Override
  protected void doGet(HttpServletRequest request, HttpServletResponse response)
throws ServletException, IOException {
      response.setContentType("text/html");
     PrintWriter out = response.getWriter();
```

```
String id = request.getParameter("id");
    String name = "";
    String age = "";
    Connection con;
   try
       Class.forName("oracle.jdbc.OracleDriver");
DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:XE", "system",
"system");
      String query="Select * from Student5 where id=" + id;
      Statement stmt=con.createStatement();
      ResultSet rs=stmt.executeQuery(query);
      if(rs.next())
        name = rs.getString("name");
        age = rs.getString("age");
      rs.close();
      stmt.close();
      con.close();
   catch(Exception e)
      System.out.println(e);
    out.println("<html>");
    out.println("<body bgcolor = 'LightSkyBlue'>");
    out.println("<center><h1>Update Student <h1> <Center>");
    out.println("<form action='Edit'>");
    out.println("");
    out.println("");
    out.println("Student No:");
    out.println("" + id + "<input type ='hidden' name='id'
value=""+id+"">");
    out.println("");
    out.println("");
    out.println("Student Name:");
    out.println("<input type='text' name='name' value="" + name + "'>");
    out.println("");
    out.println("");
    out.println("Student Age:");
    out.println("<input type='text' name='age' value="" + age + "'>");
    out.println("");
```

```
out.println("");
     out.println("<input type='submit' value='Submit'>");
     out.println("");
     out.println("");
     out.println("</form>");
    out.println("</body>");
    out.println("</html>");
Edit.java:
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this template
*/
package Student;
import jakarta.servlet.ServletException;
import jakarta.servlet.http.HttpServlet;
import jakarta.servlet.http.HttpServletRequest;
import jakarta.servlet.http.HttpServletResponse;
import java.io.IOException;
import java.io.PrintWriter;
import java.sql.*;
public class Edit extends HttpServlet {
  @Override
  protected void doGet(HttpServletRequest request, HttpServletResponse response)
throws ServletException, IOException {
    response.setContentType("text/html");
    PrintWriter out = response.getWriter();
    out.println("<html>");
    out.println("<body>");
     String sno=request.getParameter("id");
     String sname=request.getParameter("name");
    String sage=request.getParameter("age");
    Connection con;
    try
```

```
Class.forName("oracle.jdbc.OracleDriver");
DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:XE", "system",
"system");
       String query="Update Student5 set name="" + sname + "', age=" + sage + "
where id="+sno;
       Statement stmt=con.createStatement();
       stmt.executeUpdate(query);
       stmt.close();
       con.close();
    catch(Exception e)
       out.println(e);
    response.sendRedirect("List");
     out.println("</body>");
     out.println("</html>");
Delete.java:
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this template
*/
package Student;
import jakarta.servlet.ServletException;
import jakarta.servlet.http.HttpServlet;
import jakarta.servlet.http.HttpServletRequest;
import jakarta.servlet.http.HttpServletResponse;
import java.io.IOException;
import java.io.PrintWriter;
import java.sql.*;
public class Delete extends HttpServlet {
  @Override
  protected void doGet(HttpServletRequest request, HttpServletResponse response)
throws ServletException, IOException {
     response.setContentType("text/html");
     PrintWriter out = response.getWriter();
     out.println("<html>");
     out.println("<body>");
```

```
String sno=request.getParameter("id");
    Connection con=null;
    try
       Class.forName("oracle.jdbc.OracleDriver");
DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:XE", "system",
"system");
       String query="Delete from Student5 where id=" + sno;
       Statement stmt=con.createStatement();
       stmt.executeUpdate(query);
       stmt.close();
       con.close();
    catch(Exception e)
       System.out.println(e);
    response.sendRedirect("List");
    out.println("</body>");
    out.println("</html>");
}
```

Q14. Create Table Book(id,name,price). Write a Servlet application to insert data of Book i.e. is, name, price and display in tabular form. Create a hyperlink to purchase book asking quantity of book and display proper bill based on quantity entered by the user.

Database Table:

```
create table Book( id int, name varchar2(100), price int )
```

List_Books.java:

/*

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package Book;

import jakarta.servlet.ServletException;

```
import jakarta.servlet.http.HttpServlet;
import jakarta.servlet.http.HttpServletRequest;
import jakarta.servlet.http.HttpServletResponse;
import java.io.IOException;
import java.io.PrintWriter;
import java.sql.*;
public class List Books extends HttpServlet {
  @Override
  protected void doGet(HttpServletRequest request, HttpServletResponse response)
throws ServletException, IOException {
    response.setContentType("text/html");
    PrintWriter out = response.getWriter();
    out.println("<html>");
    out.println("<body bgcolor='cyan'>");
    out.println("<center><h1> CRUD Operation On Student Table<h1>
<Center>");
    Connection con = null;
    try {
      //Loading driver
      Class.forName("oracle.jdbc.OracleDriver");
      //Building bridge between java & database
      con =
DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:XE", "system",
"system");
      //Building query
      String query = "Select * from Book";
      //Firing query to database
      Statement stmt = con.createStatement();
      ResultSet rs = stmt.executeQuery(query);
      out.println("");
      out.println("");
      out.println(" Book Name");
      out.println(" Book Price");
      out.println("Purchase");
      out.println("");
      while (rs.next()) {
         String id = rs.getString("id");
         String book name = rs.getString("name");
         String book price = rs.getString("price");
         out.println("");
         out.println("" + book name + " ");
         out.println("" + book price + "");
         out.println("<td><a href = 'Purchase?id=" + id + "'>Buy</a></td>");
         out.println("");
       }
```

```
out.println("");
       out.println("<br/>br><Center><a href = 'Add Book'>Add New
Book</a></Center><br/>');
       rs.close();
       stmt.close();
       con.close();
     } catch (Exception e) {
       out.println(e);
    out.println("</body>");
     out.println("</html>");
Add Books.java:
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this template
package Book;
import jakarta.servlet.ServletException;
import jakarta.servlet.http.HttpServlet;
import jakarta.servlet.http.HttpServletRequest;
import jakarta.servlet.http.HttpServletResponse;
import java.io.IOException;
import java.io.PrintWriter;
import java.sql.*;
public class Add Book extends HttpServlet {
  @Override
  protected void doGet(HttpServletRequest request, HttpServletResponse response)
throws ServletException, IOException {
    response.setContentType("text/html");
    PrintWriter out = response.getWriter();
    out.println("<html>");
    out.println("<body bgcolor = 'pink'>");
    out.println("<center><h1>Insert Book <h1> <Center>");
    Connection con=null;
    int id=0;
    try
```

```
Class.forName("oracle.jdbc.OracleDriver");
      con =
DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:XE", "system",
"system");
      String query="Select max(id) maxnum from Book";
      //Firing query to database
      Statement stmt=con.createStatement();
      ResultSet rs=stmt.executeQuery(query);
      while(rs.next())
        id=rs.getInt("maxnum");
      rs.close();
      stmt.close();
      con.close();
    catch(Exception e)
      System.out.println(e);
    id++:
    out.println("<form action = 'Insert Book'>");
    out.println("");
    out.println("Student No:" + id + "<input type = 'hidden'
name = 'id' value =""+id+""> ");
    out.println("Book Name:<input type='text'
name='book name'>");
    out.println("Book Price:<input type='text'
name='book price'>");
    out.println("<input type='submit'
value='Submit'>");
    out.println("");
    out.println("</form>");
Insert Book:
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this template
*/
package Book;
import jakarta.servlet.ServletException;
import jakarta.servlet.http.HttpServlet;
```

```
import jakarta.servlet.http.HttpServletRequest;
import jakarta.servlet.http.HttpServletResponse;
import java.io.IOException;
import java.io.PrintWriter;
import java.sql.*;
public class Insert Book extends HttpServlet {
  @Override
  protected void doGet(HttpServletRequest request, HttpServletResponse response)
throws ServletException, IOException {
    response.setContentType("text/html");
    PrintWriter out = response.getWriter();
     out.println("<html>");
    out.println("<body>");
    out.println("<center><h1>Insert Book <h1> <Center>");
     String id=request.getParameter("id");
     String name=request.getParameter("book name");
    String price=request.getParameter("book price");
    Connection con=null;
    try
       Class.forName("oracle.jdbc.OracleDriver");
       con =
DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:XE", "system",
"system");
       //Building query
       String query="Insert into Book values(" + id + ","" + name + ""," + price +
")";
       Statement stmt=con.createStatement();
       stmt.executeUpdate(query);
       stmt.close();
       con.close();
    catch(Exception e){
       out.println(e);
    response.sendRedirect("List Books");
    out.println("</body>");
     out.println("</html>");
Purchase.java:
```

```
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this template
package Book;
import jakarta.servlet.ServletException;
import jakarta.servlet.http.HttpServlet;
import jakarta.servlet.http.HttpServletRequest;
import jakarta.servlet.http.HttpServletResponse;
import java.io.IOException;
import java.io.PrintWriter;
import java.sql.*;
public class Purchase extends HttpServlet {
  @Override
  protected void doGet(HttpServletRequest request, HttpServletResponse response)
throws ServletException, IOException {
     PrintWriter out = response.getWriter();
     out.println("<html>");
     out.println("<body bgcolor = 'LightSkyBlue'>");
    out.println("<center><h1>Purchase Book <h1> <Center>");
     Connection con = null;
     String book name = "";
     String book price = "";
    String book id = "";
    try {
       Class.forName("oracle.jdbc.OracleDriver");
DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:XE", "system",
"system");
       String id = request.getParameter("id");
       String query = "Select * from Book where id=" + id;
       Statement stmt = con.createStatement();
       ResultSet rs = stmt.executeQuery(query);
       out.println("");
       while (rs.next()) {
         book id = rs.getString("id");
         book name = rs.getString("name");
         book price = rs.getString("price");
       rs.close();
       stmt.close();
```

```
con.close();
    } catch (Exception e) {
      System.out.println(e);
    out.println("<form action = 'Order'>");
    out.println("");
    out.println("Book Name" + book name + "<input type"
='hidden' name = 'book name' value =""+book name+"">");
    out.println("Book Price" + book price + "<input type"
='hidden' name = 'book price' value =""+book price+"">");
    out.println("Quantity<input type='text'
name='quantity'>");
    out.println("<input type='submit'
value='Submit'>");
    out.println("");
    out.println("</form>");
Order.java:
* Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to
change this license
* Click nbfs://nbhost/SystemFileSystem/Templates/JSP Servlet/Servlet.java to edit
this template
*/
package Book;
import jakarta.servlet.ServletException;
import jakarta.servlet.http.HttpServlet;
import jakarta.servlet.http.HttpServletRequest;
import jakarta.servlet.http.HttpServletResponse;
import java.io.IOException;
import java.io.PrintWriter;
import java.sql.*;
public class Order extends HttpServlet {
  @Override
  protected void doGet(HttpServletRequest request, HttpServletResponse response)
throws ServletException, IOException {
    PrintWriter out = response.getWriter();
    out.println("<html>");
    out.println("<body bgcolor = 'LightSkyBlue'>");
    out.println("<center><h1>Your Bill<h1>");
    String book nm = request.getParameter("book name");
    int book pr = Integer.parseInt(request.getParameter("book price"));
    int qty = Integer.parseInt(request.getParameter("quantity"));
    int total = book pr * qty;
```

```
out.println("");
out.println("Bill");
out.println("Book Name" + book_nm + "");
out.println("Book Price" + book_pr + "");
out.println("Quantity+ qty + "book_pr + "dd>");
out.println("Total Amount+ total + "dd>");
out.println("");
out.println("<h2>Thanks for Placing the Order <a href="List_Books">List</a></h2>");
out.println("<h2>Thanks for Placing the Order <a href="List_Books">List</a></h2>");
out.println("</center></body></html>");
}

15 Create Table Student(Id, Name, Marks1, Marks2, Marks 3). Write Servlet/JSP application to insert data and display all data. Also, in display each record contains
```

link to calculate total and percentage of particular student.