QUESTION 3

Create a simple calculator using JSP and Servlet to find the *total hourly wage* based on the *hours worked* and *job title* in Malaysia. Use the Hourly Wage Table as a reference to develop the calculator. Your HTML input form must be like Figure 1. Then, display the output which contains Job Title, Hours Worked, Hourly Rate and Total Hourly Wage as shown in Figure 2.

Table 1: Hourly Wage Table

JOB TITLE	HOURLY RATE
Cashier	RM50.00
Clerk	RM70.00
Storekeeper	RM40.00

Wage Calculator

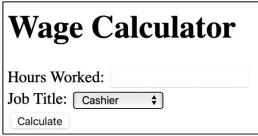Hours Worked: [_____]
Job Title: [Cashier ▾]
[Calculate]

Figure 1: HTML Input form

Wage Result

Job Title: Clerk
Hours Worked: 23.0
Hourly Rate: RM70.0
Total Hourly Wage: RM1610.0

Figure 2: Output

(10 marks)

Wage Calculator

Hours Worked: _____

Job Title: [Cashier ▲▼]

[Calculate]

Figure 1: HTML Input form

```jsp
<% @ page language ="java" contentType ="text/html; charset = UTF-8"%>

<!DOCTYPE html>
<html>
<head>
    <title> Wage Calculator </title>
</head>
<body>
    <h1> Wage Calculator </h1>
    <form method "Post" action "Calculate">
        Hours Worked: <input type = "text" name ="Hours Worked" id="Hours Worked"/> <br/>
        Job title: <select id ="Job title" name ="Job title">
                <option value ="Cashier"> Cashier </option>
                <option value ="Clerk"> Clerk </option>
                <option value ="Storekeeper"> Storekeeper </option>
        </select>
        <input type ="button" value ="Calculate">
    </form>
</body>
</html>
```

Calculate.java

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

public class Calculate extends HttpServlet {
    protected void doPost(HttpServletRequest request, HttpServletResponse response) {
        String jobTitle = request.getParameter("Job title");
        double hoursWorked = Double.parseDouble(request.getParameter("Hours Worked"));

        if (jobTitle.equalsIgnoreCase("Cashier") {
            double hourlyRate = 50.00;
            double totalWage = hoursWorked * 50.00;
        }
        else if (jobTitle.equalsIgnoreCase("Clerk") {
            double hourlyRate = 70.00;
            double totalWage = hoursWorked * 70.00;
        }
        else if (jobTitle.equalsIgnoreCase("Storekeeper") {
            double hourlyRate = 40.00;
            double totalWage = hoursWorked * 40.00;
        }

        request.setAttribute("jobTitle", jobTitle);
        request.setAttribute("hoursWorked", hourWorked);
        request.setAttribute("hourlyRate", hourlyRate);
        request.setAttribute("totalWage", totalWage);

        request.getRequestDispatcher("/result.jsp").forward(request, response);
```