LAB INDEX

NAME: Vivek Kumar

UID: 21BCS8129

SECTION: WM-20BCS-616/A

SUBJECTNAME: Project Based Learning in Java Lab

SUBJECTCODE: 20CSP-314

Sr. No	Program	Date	Evaluation				Sign
			LW (12)	VV (10)	FW (8)	Total (30)	
1	Create an application to save the employee information using arrays.	09-08-2022					
2	Design and implement a simple inventory control system for a small video rentalstore.	23-08-2022					
3	Create a application to calculate interest for FDs, RDs based on certain conditions using inheritance.	02-09-2022					
4	Create a program to show the usage of Sets of Collection interface.	27-09-2022					
5	Create a program to set view of Keys from Java Hashtable.	27-09-2022					
6	Write a Program to perform the basic operations like insert, delete, display and search in list. List contains String object items where these operations are to be performed.	04-10-2022					
7	Create a menu-based Java application with the following options.1. Add an Employee2.Display All3.Exit If option 1 is selected, the application should gather details of the employee like employee name, employee id, designation and salary and store it in a file. If option 2 is selected, the application should display all the employee details. If option 3 is selected the application should exit.	14-10-2022					
8	Create a palindrome creator application for making a longest possible palindrome out of given input string.	01-11-2022					
9	Create a Servlet/ application with a facility to print any message on web browser.	10/11/2022					
10	Create JSP application for addition, multiplication and division.	10/11/2022					

CHANDIGARH UNIVERSITY
UNIVERSITY INSTITUTE OF NGINEERING
DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Submitted By:	Submitted To:
Vivek Kumar(21BCS8129)	Neeru Sharma(E12950)

Subject Name	Project Based Learning in Java Lab
Subject Code	20CSP-321
Branch	Computer Science and Engineering
Semester	5th

Experiment - 10

Student Name: Vivek Kumar   **UID: 21BCS8129**
Branch: BE-CSE(LEET)   **Section/Group:20BCS-WM-616/A**
Semester: 5th   **Date of Performance: 01/11/2022**
Subject Name: Project Based Learning in Java Lab **Subject Code: 20CSP-321**

1. **Aim/Overview of the practical:**
   Create a program that uses XML and html to create a DOM parser.

2. **Task to be done/ Which logistics used:**
   Create a program that uses XML and html to create a DOM parser.

3. **Apparatus / Simulator Used:**
   - Eclipse IDE - (Java)
   - NetBeans.
   - JDK-8 or any.

4. **Programs/ Code:**

Code:

Index.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE market SYSTEM "check.dtd">
<market>
<shop ID="101" subject="java">
<name>Green</name>
<rating>5</rating>
</shop>
<shop ID="102" subject="python">
<name>
RockNroll
</name>
<rating>
10
</rating>
</shop>
</market>
```

Index.html

```
<!DOCTYPE html>
<html>
<body>
<p><button onclick="loadXMLDoc()">Market info</button></p>
<table id="demo" border="1">
<tr><th>name</th><th>rating</th></tr>
</table>
<script>
function loadXMLDoc() {
 var xmlhttp = new XMLHttpRequest();
 xmlhttp.onreadystatechange = function() {
 if (this.readyState == 4 && this.status == 200) {
 myFunction(this);
 }
 };
 xmlhttp.open("GET", "index.xml" , true);
 xmlhttp.send();
}
function myFunction(xml) {
 var x, i, xmlDoc, table;
 xmlDoc = xml.responseXML;
 table = "<tr><th>name</th><th>rating</th></tr>";
 x = xmlDoc.getElementsByTagName("shop")
 for (i = 0; i < x.length; i++) {
 table += "<tr><td>" +
 x[i].getElementsByTagName("name")[0].childNodes[0].nodeValue +
 "</td><td>" +
 x[i].getElementsByTagName("rating")[0].childNodes[0].nodeValue +
 "</td></tr>";
 }
 document.getElementById("demo").innerHTML = table;
}
</script>
</body>
</html>
```

Check.dtd
```xml
<?xml version="1.0" encoding="UTF-8"?>
<!ELEMENT market (shop+) >
<!ELEMENT shop (name,rating)>
<!ELEMENT name (#PCDATA)>
<!ELEMENT rating (#PCDATA)>
<!ATTLIST shop ID CDATA #REQUIRED>
<!ATTLIST shop subject (java|python) "JAVA">
```

5. **Result/Output/Writing Summary:**

I have successfully done this program.

Learning Outcomes (What I have learnt):
- Learnt the concept of XML.
- Learnt the concept of DOM.
- Learnt the concept of HTML.
- Learnt a program that uses XML and html to create a DOM parser.

Evaluation Grid (To be created per the faculty's SOP and Assessment guidelines):

Sr. No.	Parameters	Marks Obtained	Maximum Marks
1.	Worksheet completion including writing learning objectives/Outcomes. (To be submitted at the end of the day).		
2.	Post-Lab Quiz Result.		
3.	Student Engagement in Simulation/Demonstration/Performance and Controls/Pre-Lab Questions.		
	Signature of Faculty (with Date):	Total Marks Obtained:	