PRACTICAL LIST – 5

Index.html FILE

```html
<!DOCTYPE html>
<html>
    <head>
        <title>Practical List - 5</title>
        <link rel="stylesheet" href="css/style.css" type="text/css"/>
    </head>
    <body>
        <div class="form">
            <h1 class="text-heading">GO TO YOUR DESIRE PRACTICAL</h1>
            <table cellspacing="0" cellpadding="8" align="center">
                <tr>
                    <form  action="AJAVA_P_5-1.html" method="POST">
                            <td  colspan="2"><input  class="btn  submit"
type="submit" value="GO TO PRACTICAL 5.1" name="AJAVA_P_5-1"></td>
                    </form>
                </tr> <tr>
                    <form  action="AJAVA_P_5-2.html" method="POST">
                            <td  colspan="2"><input  class="btn  submit"
type="submit" value="GO TO PRACTICAL 5.2" name="AJAVA_P_5-2"></td>
                    </form>
                </tr><tr>
                    <form  action="AJAVA_P_5-3.html" method="POST">
                            <td  colspan="2"><input  class="btn  submit"
type="submit" value="GO TO PRACTICAL 5.3" name="AJAVA_P_5-3"></td>
                    </form>
                </tr>tr>
                    <form  action="AJAVA_P_5-4.jsp" method="POST">
                            <td  colspan="2"><input  class="btn  submit"
type="submit" value="GO TO PRACTICAL 5.4" name="AJAVA_P_5-4"></td>
                    </form>
                </tr>
            </table>
        </div>
    </body>
</html>
```
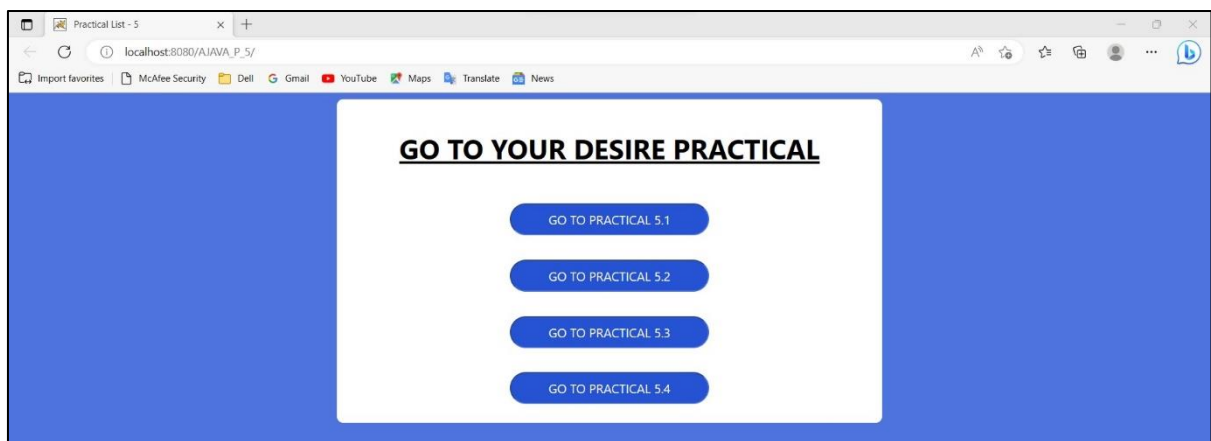
INDEX FILE

_____

PROGRAM – 5.1

Aim : Develop a program simple jsp program for user registration and then control will be transfer it into second page.

Program :

AJAVA_P_5-1.html FILE

```html
<!DOCTYPE html>
<html>
    <head>
        <title>Registration Form With JSP</title>
        <link rel="stylesheet" href="css/style.css" type="text/css"/>
    </head>
    <body>
        <div class="form">
            <form  action="AJAVA_P_5-1.jsp" method="POST">
                <h1 class="text-heading">Registration Form With JSP</h1>
                <table cellspacing="0" cellpadding="8" align="center">
                    <tbody>
                        <tr>
                             <th><label  class="text-lable">Enter  Name</label></th>
                             <td><input class="form-element" type="text" name="name" require></td>
                        </tr>
                        <tr>
                            <th><label class="text-lable">Enter Email</label></th>
                            <td><input class="form-element" type="email" name="email" require></td>
                        </tr>
                        <tr>
                            <th><label class="text-lable">Select Gender</label></th>
                            <td>
                                <input class="form-element" type="radio" name="gender" value="male" id="flexRadioDefault1">
                                <label class="text-lable">
                                    Male
                                </label>
                                <input class="form-element" type="radio" name="gender" value="female" id="flexRadioDefault2">
                                <label class="text-lable">
                                    Female
                                </label>
                            </td>
                        </tr>
                        <tr>
                             <th><label class="text-lable">Enter Address</label></th>
                            <td>
                                    <textarea  class="form-element" name="address" rows="3" cols="23"></textarea>
                            </td>
                        </tr>
                        <tr align="center">
```

```
                                    <td colspan="2"><input class="btn submit"
type="submit" value="Register" name="submit"></td>
                        </tr>
                    </tbody>
                </table>
            </form>
        </div>
    </body>
</html>
```

AJAVA_P_5-1.jsp FILE

```
<%@page contentType="text/html" pageEncoding="UTF-8"%>
<html>
    <head>
        <title>DATA PASSED THROUGH HTML FORM</title>
        <link rel="stylesheet" href="css/style.css" type="text/css"/>
    </head>
    <body>
        <div class="form">
            <form  action="" method="POST">
                <h1 class="text-heading">DATA PASSED THROUGH HTML FORM</h1>
                    <table  cellspacing="0"  cellpadding="8"  align="center"
border="1">
                    <tbody>
                        <tr>
                            <th><label class="text-lable">Name</label></th>
                            <td><label class="text-lable"><%out.print(reque
st.getParameter("name"));%></label></td>
                        </tr>
                        <tr>
                                                <th><label  class="text-
lable">Email</label></th>
                            <td><label class="text-lable"><%out.print(reque
st.getParameter("email"));%></label></td>
                        </tr>
                        <tr>
                                                <th><label  class="text-
lable">Gender</label></th>
                            <td><label class="text-lable"><%out.print(reque
st.getParameter("gender"));%></label></td>
                        </tr>
                        <tr>
                                                <th><label  class="text-
lable">Address</label></th>
                                                <td><label  class="text-
lable"><%out.print(request.getParameter("address"));%></label></td>
                        </tr>
                    </tbody>
                </table>
            </form>
        </div>
    </body>
</html>
```

Output :

<u>**FILL THE FORM**</u>

<u>**AFTER CLICK ONTO REGISTER**</u>

PROGRAM – 5.2

Aim : Develop a program simple jsp program for user login form with static and dynamic database.

Program :

AJAVA_P_5-2.html FILE

```html
<!DOCTYPE html>
<html>
    <head>
        <title>Registration Form With JSP</title>
        <link rel="stylesheet" href="css/style.css" type="text/css"/>
    </head>
    <body>
        <div class="form">
            <form  action="AJAVA_P_5-2.jsp" method="POST">
                <h1 class="text-heading">Login Page</h1>
                <table cellspacing="0" cellpadding="8" align="center">
                    <tbody>
                        <tr>
                                <th><label class="text-lable">Enter Email</label></th>
                                <td><input class="form-element" type="email" name="email" require></td>
                        </tr>
                        <tr>
                            <th><label class="text-lable">Enter Password</label></th>
                                <td><input class="form-element" type="password" name="password" require></td>
                        </tr>
                        <tr align="center">
                                    <td colspan="2"><input class="btn submit" type="submit" value="Login" name="submit"></td>
                        </tr>
                    </tbody>
                </table>
            </form>
        </div>
    </body>
</html>
```
                            AJAVA_P_5-2.jsp FILE

```jsp
<%@page contentType="text/html" pageEncoding="UTF-8"%>
<%@ page import="java.sql.*" %>
<html>
    <head>
        <title>DATA PASSED THROUGH HTML FORM</title>
        <link rel="stylesheet" href="css/style.css" type="text/css"/>
    </head>
    <body>
        <div class="form">
            <form  action="AJAVA_P_5-2.html" method="POST">
                <h1 class="text-heading">MAIN PAGE</h1>
                <table cellspacing="0" cellpadding="8" align="center">
```

```
            <%!
                Connection cn;
                PreparedStatement stmt;
            %>
            <%
                Class.forName("com.mysql.cj.jdbc.Driver");
                                                    cn      =
DriverManager.getConnection("jdbc:mysql://localhost:3306/java_practice",
"root", "");
                    stmt = cn.prepareStatement("select * from users where
email = ? and password = ?");
                    stmt.setString(1, request.getParameter("email"));
                    stmt.setString(2, request.getParameter("password"));
                    ResultSet rs = stmt.executeQuery();
                    while (rs.next()) {
                        out.println("<h1 class=\"text-heading\">WELCOME " +
rs.getString("email") + "</h1>");
                        return;
                    }
                        out.println("<h1>  Invalid  Email  or  password
</h1><tr><td   colspan=\"2\"><input   class=\"btn   submit\"   type=\"submit\"
value=\"GO BACK TO LOGIN PAGE\" name=\"submit\"></td></tr>");
            %>
            </table>
        </form>
    </div>
    </body>
</html>
```
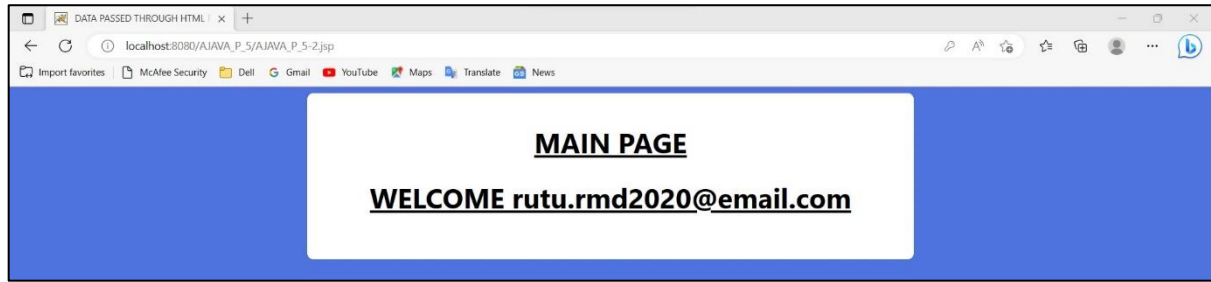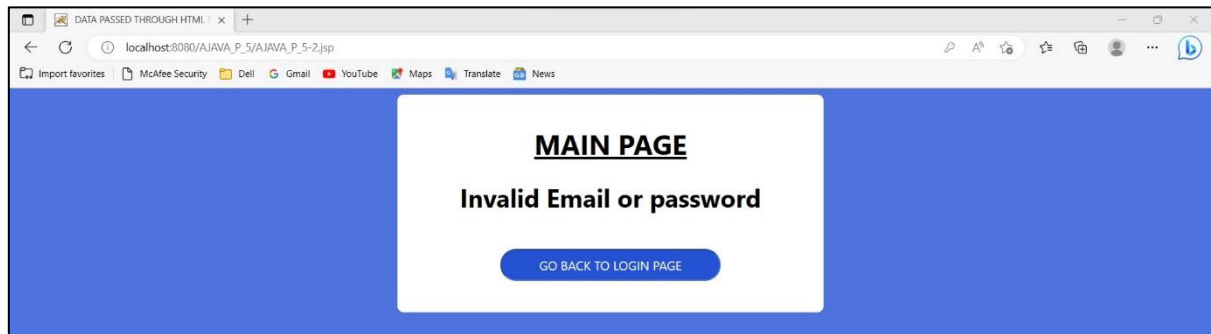
Output :

USERS TABLE

			id	username	email	mobile	password
☐	🖉 Edit	ᴴᴱ Copy ⊝ Delete	1	rutikD	rutu.rmd2020@email.com	9979004452	rutikHello
☐	🖉 Edit	ᴴᴱ Copy ⊝ Delete	3	Xyz	xyz@email.com	9979004452	Hello
☐	🖉 Edit	ᴴᴱ Copy ⊝ Delete	4	123	56	12	31
☐	🖉 Edit	ᴴᴱ Copy ⊝ Delete	5	5	1	5	2
☐	🖉 Edit	ᴴᴱ Copy ⊝ Delete	12	rutikD	rutu.rmd2020@email.com	9979004452	rutikHello
☐	🖉 Edit	ᴴᴱ Copy ⊝ Delete	13	jenilD	jenil.jmd2020@email.com	9979004452	jenilHello
☐	🖉 Edit	ᴴᴱ Copy ⊝ Delete	14	Xyz	xyz@email.com	9979004452	xyzHello
☐	🖉 Edit	ᴴᴱ Copy ⊝ Delete	15	rutikD	rutu.rmd2020@email.com	9979004452	rutikHello
☐	🖉 Edit	ᴴᴱ Copy ⊝ Delete	16	jenilD	jenil.jmd2020@email.com	9979004452	jenilHello
☐	🖉 Edit	ᴴᴱ Copy ⊝ Delete	17	Xyz	xyz@email.com	9979004452	xyzHello

ENTER CORRECT USER NAME AND PASSWORD

WELCOME SCREEN

INPUT WRONG USERNAME AND PASSWORD

PROGRAM – 5.3

Aim : Develop a jsp program to display the grade of a student by accepting the mark of five subjects.

Program :

AJAVA_P_5-3.html FILE

```html
<!DOCTYPE html>
<html>
    <head>
        <title>Student Grade</title>
        <link rel="stylesheet" href="css/style.css" type="text/css"/>
    </head>
    <body>
        <div class="form">
            <form  action="AJAVA_P_5-3.jsp" method="GET">
                <h1 class="text-heading">Student Grade</h1>
                <table cellspacing="0" cellpadding="8" align="center">
                    <tbody>
                        <tr>
                            <th><label class="text-lable">Student
name</label></th>
                            <td><input class="form-element" type="text"
name="name" require></td>
                        </tr>
                        <tr>
                            <th><label class="text-lable">Advance
JAVA</label></th>
                            <td><input class="form-element" type="number"
name="advJava" max="70" min="0" require></td>
                        </tr>
                        <tr>
                            <th><label class="text-
lable">Android</label></th>
                            <td><input class="form-element" type="number"
name="android" max="70" min="0" require></td>
                        </tr>
                        <tr>
                            <th><label class="text-lable">PHP</label></th>
                            <td><input class="form-element" type="number"
name="php" max="70" min="0" require></td>
                        </tr>
                        <tr>
                            <th><label class="text-lable">Web Network
Security</label></th>
                            <td><input class="form-element" type="number"
name="wns" max="70" min="0" require></td>
                        </tr>
                        <tr align="center">
                            <td colspan="2"><input class="btn submit"
type="submit" value="Generate Grade" name="submit"></td>
                        </tr>
```

```
                        </tbody>
                    </table>
                </form>
            </div>
        </body>
</html>
```

AJAVA_P_5-3.jsp FILE

```jsp
<%@page contentType="text/html" pageEncoding="UTF-8"%>
<html>
    <head>
        <title>STUDENT GRADE</title>
        <meta charset="UTF-8">
            <meta name="viewport" content="width=device-width, initial-
scale=1.0">
        <link rel="stylesheet" href="css/style.css" type="text/css"/>
                                                          <link
href="https://fonts.googleapis.com/css2?family=Inter:wght@400;500;700&displ
ay=swap" rel="stylesheet" />
    </head>
    <body>
        <div class="form">
            <form  action="" method="POST">
                <%!
                    int java;
                    int wns;
                    int android;
                    int php;
                    int total;
                    String name = "";
                    float percentage;
                    String grade = "";

                %>
                <%
                    java = Integer.parseInt(request.getParameter("advJava")
);
                    wns = Integer.parseInt(request.getParameter("wns"));
                    android = Integer.parseInt(request.getParameter("androi
d"));
                    php = Integer.parseInt(request.getParameter("php"));
                    total = (java + android + php + wns);
                    name = request.getParameter("name");
                    percentage = (100 * total) / 280;
                    if (percentage <= 100 && percentage >= 90) {
                        grade = "A1";
                    } else if (percentage <= 90 && percentage >= 80) {
                        grade = "A2";
                    } else if (percentage <= 80 && percentage >= 70) {
                        grade = "B1";
                    } else if (percentage <= 70 && percentage >= 60) {
                        grade = "B2";
                    } else if (percentage <= 60 && percentage >= 50) {
                        grade = "C1";
                    } else if (percentage <= 50 && percentage >= 40) {
                        grade = "C2";
                    } else if (percentage <= 40 && percentage >= 30) {
```

```
                                        grade = "DD";
                        } else {
                                grade = "Fail";
                        }
                %>
                <h1 class="text-heading">GRADE OF <%= name%></h1>
                    <table  cellspacing="0"  cellpadding="8"  align="center"
border="1">
                        <tbody>
                            <tr>
                                        <th><label  class="text-lable">SUBJECT
</label></th>
                                        <th><label  class="text-lable">GRADE</
label></th>
                            </tr>
                            <tr>
                                <th><label class="text-lable">JAVA</label></th>
                                        <td  align="center"><label  class="text-
lable"><%= java%></label></td>
                            </tr>
                            <tr>
                                        <th><label  class="text-lable">Android</
label></th>
                                        <td  align="center"><label  class="text-
lable"><%= android%></label></td>
                            </tr>
                            <tr>
                                <th><label class="text-lable">PHP</label></th>
                                        <td  align="center"><label  class="text-
lable"><%= php%></label></td>
                            </tr>
                            <tr>
                                <th><label class="text-lable">WNS</label></th>
                                        <td  align="center"><label  class="text-
lable"><%= wns%></label></td>
                            </tr>
                            <tr>
                                        <th><label  class="text-lable">Total</lab
el></th>
                                         <td  align="center"><label  class="text-l
able"><%= total%></label></td>
                            </tr>
                            <tr>
                                         <th><label  class="text-lable">Result</l
abel></th>
                                         <td  align="center"><label  class="text-l
able"><%= percentage%></label></td>
                            </tr>
                            <tr>
                                        <th><label  class="text-lable">Grade</labe
l></th>
                                        <td  align="center"> <label  class="text-l
able"><%= grade%></label></td>
                            </tr>
                        </tbody>
                    </table>
                </form>
```

```
        </div>
    </body>
</html>
```

Output :

INSERT DATA INTO FROM

DISPLAY INSERTED DATA

PROGRAM – 5.4

Aim : Develop a JSP program to upload and download file from the local server.

Program :

AJAVA_P_5-4.jsp FILE

```jsp
<%@page contentType="text/html" pageEncoding="UTF-8"%>
<%@page import="java.io.FileOutputStream"%>
<%@page import="java.io.DataInputStream"%>
<html>
    <head>
        <title>UPLOAD FILE</title>
        <link rel="stylesheet" href="css/style.css" type="text/css"/>
    </head>
    <body>
        <div class="form">
            <form method="POST" enctype="multipart/form-data">
                <h1 class="text-heading">UPLOAD FILE</h1>
                <%
                        String uploadPath = "D:/1 SSGC/SEM 6/AJ/JAVA
PRACTICALS/Practical List 5/AJAVA_P_5/files/";
                    String contentType = request.getContentType();
                            if ((contentType != null) &&
(contentType.indexOf("multipart/form-data") >= 0)) {
                                    DataInputStream in = new
DataInputStream(request.getInputStream());
                        int formDataLength = request.getContentLength();
                        byte dataBytes[] = new byte[formDataLength];
                        int byteRead = 0;
                        int totalBytesRead = 0;
                        while (totalBytesRead < formDataLength) {
                            byteRead = in.read(dataBytes, totalBytesRead,
formDataLength);
                            totalBytesRead += byteRead;
                        }
                        String file = new String(dataBytes);
                                        String saveFile =
file.substring(file.indexOf("filename=\"") + 10);
                                    saveFile = saveFile.substring(0,
saveFile.indexOf("\n"));
                                            saveFile =
saveFile.substring(saveFile.lastIndexOf("\\") + 1, saveFile.indexOf("\""));
                        int lastIndex = contentType.lastIndexOf("=");
                        String boundary = contentType.substring(lastIndex +
1, contentType.length());
                        int pos;
                        pos = file.indexOf("filename=\"");
                        pos = file.indexOf("\n", pos) + 1;
                        pos = file.indexOf("\n", pos) + 1;
                        pos = file.indexOf("\n", pos) + 1;
                         int boundaryLocation = file.indexOf(boundary, pos)
- 4;
                         int startPos = ((file.substring(0, pos)).getBytes(
)).length;
                         int endPos = ((file.substring(0, boundaryLocation)
).getBytes()).length;
```

```
                              FileOutputStream fileOut = new FileOutputStream(up
loadPath + saveFile);
                              fileOut.write(dataBytes, startPos, (endPos - start
Pos));
                              fileOut.flush();
                              fileOut.close();
                                  out.println("File " + saveFile + " has been
uploaded successfully.");
                              out.println(
                                  "<form method='post' action='DownloadFile.jsp'
><input type='hidden' value='" + saveFile.toString() + "' name='prevFile'
/> <input type='submit' value='download " + saveFile + " ' /></form>");
                      }
                %>
                 <table cellspacing="0" cellpadding="8" align="center"
border="1">
                      <tbody>
                          <tr>
                              <th><label class="text-lable">SELECT FILE TO U
PLOAD</label></th>
                              <td><input class="form-element" type="file"n a
me="file" require></td></tr>
                          <tr align="center">
                                  <td colspan="2"><input class="btn submit"
type="submit" value="Upload" name="submit"></td>
                              </tr>
                      </tbody>
                </table>
            </form>
        </div>
    </body>
</html>
```

DownloadFile.jsp FILE

```
<%@page contentType="text/html" pageEncoding="UTF-8"%>
<%@page import="java.io.File"%>
<%@page import="java.io.FileInputStream"%>
<html>
    <head>
        <title>UPLOAD FILE</title>
        <link rel="stylesheet" href="css/style.css" type="text/css"/>
    </head>
    <body>
        <div class="form">
                <h1 class="text-heading">DOWNLOAD FILE</h1>
                <%
                    String fileName = request.getParameter("file");
                    String downloadPath = "D:/1 SSGC/SEM 6/AJ/JAVA PRACTICA
LS/Practical List 5/AJAVA_P_5/files/";
                    File file = new File(downloadPath + fileName);
                    if (file.exists()) {
                                response.setContentType("APPLICATION/OCTET-
STREAM");
                                 response.setHeader("Content-Disposition",
"attachment; filename=\"" + fileName + "\"");
                                    FileInputStream  fileInputStream  =  new
FileInputStream(file);
```

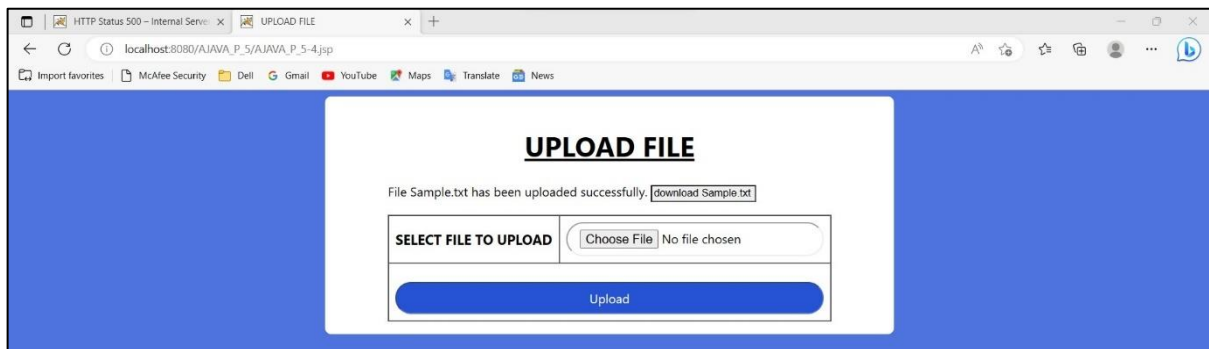```
                        int i;
                        while ((i = fileInputStream.read()) != -1) {
                            out.write(i);
                        }
                        fileInputStream.close();
                    } else {
                            out.println("File " + fileName + " does not
exist.");
                    }
                %>
                    <table cellspacing="0" cellpadding="8" align="center"
border="1">
                        <% out.print("<a href='DownloadFile.jsp?file="+reque
st.getParameter("prevFile") +"'>Download "+request.getParameter("prevFile")
+""); %>
        </div>
    </body>
</html>
```
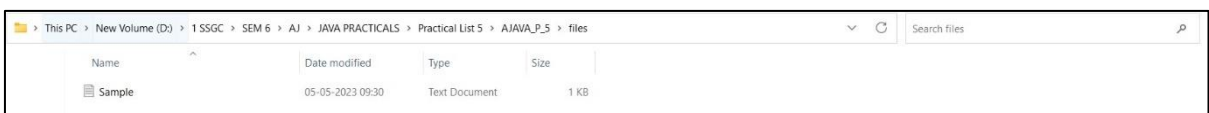
**Output :**

**UPLOAD FILE**



**UPLOADED FILE LOCATION**



**DOWNLOAD FILE**