Assignment 5

Name: Omkar Deshpande

Roll No: 43212

Batch - Q10

Problem statement -To create simple web service and write any distributed

application to consume the web service.

CODE -

```
package net.codejava.ws;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.ResultSet;
import java.sql.Statement;
import java.util.HashMap;
import java.util.Map;
import java.util.*;
import javax.ws.rs.GET;
import javax.ws.rs.Path;
import javax.ws.rs.PathParam;
import javax.ws.rs.Produces;
import javax.ws.rs.core.Context;
import javax.ws.rs.core.MediaType;
import javax.ws.rs.core.*;
import org.json.JSONArray;
import org.json.JSONObject;
@Path("/student")
public class Student {
        @GET
```

```
@Produces(MediaType.APPLICATION JSON)
public Response getlist() {
     try{
             List<HashMap<String, String>> obj1 = new ArrayList<HashMap<String, String>>();
             Class.forName("com.mysql.cj.jdbc.Driver");
             Connection con=DriverManager.getConnection(
             "jdbc:mysgl://localhost:3306/assignment login", "root", "123456");
             //here sonoo is database name, root is username and password
             Statement stmt=con.createStatement():
             ResultSet rs=stmt.executeQuery("select * from students;");
             while(rs.next())
                     HashMap<String, String> obj = new HashMap<>();
                     obj.put("id", rs.getString(1));
                     obj.put("fname", rs.getString(2));
                     obj.put("Iname", rs.getString(3));
                     obj.put("course", rs.getString(4));
                     obj1.add(obj);
       con.close();
             System.out.println(obj1);
       return Response
                     .status(200)
                     .header("Access-Control-Allow-Origin", "*")
            .header("Access-Control-Allow-Headers", "origin, content-type, accept, authorization")
            .header("Access-Control-Allow-Credentials", "true")
            .header("Access-Control-Allow-Methods", "GET, POST, PUT, DELETE, OPTIONS, HEAD")
            .header("Access-Control-Max-Age", "1209600")
            .entity(obj1)
            .build();
```

```
}catch(Exception e){ System.out.println(e);
       JSONArray obj1 = new JSONArray();
       obj1.put(1,"failure");
       List<HashMap<String, String>> obj1 = new ArrayList<HashMap<String, String>>();
       HashMap<String, String> obj = new HashMap<>();
       obj.put("status", "fail");
       obj1.add(obj);
return Response
               .status(200)
               .header("Access-Control-Allow-Origin", "*")
      .header("Access-Control-Allow-Headers", "origin, content-type, accept, authorization")
      .header("Access-Control-Allow-Credentials", "true")
      .header("Access-Control-Allow-Methods", "GET, POST, PUT, DELETE, OPTIONS, HEAD")
      .header("Access-Control-Max-Age", "1209600")
      .entity(obj1)
      .build();
```

OUTPUT -





