

C1. Create a maven projects with all dependencies required for the application in CI/CD pipeline.

Maven Dependency:

```
<!-- https://mvnrepository.com/artifact/com.googlecode.json-simple/json-simple -->
<dependency>
  <groupId>com.googlecode.json-simple</groupId>
  <artifactId>json-simple</artifactId>
  <version>1.1.1</version>
</dependency>
```

JSON data:

```
{"firstname": "Yashwanth J",
"lastname": "4VV21CS187"}
```

Java Program to read data from JSON file

```
package YashwanthJ_4VV21CS187.YashwanthJ_4VV21CS187;

import java.io.FileReader;
import java.io.IOException;
import java.text.ParseException;
import org.json.simple.JSONObject;
import org.json.simple.parser.JSONParser;

public class ReadJson {

    public static void main(String[] args) throws IOException,
    ParseException, org.json.simple.parser.ParseException{

        JSONParser jsonparser = new JSONParser();

        FileReader reader = new FileReader(".\\JSON\\student.json");

        Object obj = jsonparser.parse(reader);

        JSONObject studentobj =(JSONObject)obj;

        String fname = (String)studentobj.get("firstname");

        String lname = (String)studentobj.get("lastname");
```

```

System.out.println("Firstname:"+fname);

System.out.println("Lastname:"+lname);

```

```

    }

}

```

Program output:

The screenshot shows the Eclipse IDE with the following components:

- Package Explorer:** Shows the project structure for 'YashwanthJ_4VV21CS187', including 'src/main/java' and 'src/test/java'.
- Editor:** Displays the code for 'ReadJson.java'. The code imports necessary classes and reads a JSON file named 'student.json'.
- Outline:** Shows the class structure with 'main(String[]) : void'.
- Console:** Displays the output of the program: 'Firstname:Yashwanth J' and 'Lastname:4VV21CS187'.

Configuration	Execution	Viva	Total	Verified By