



### Practical 3

WAP to implement JSON object and Array in JAVA

```
import org.json.JSONArray;
import org.json.JSONObject;
public class JsonExample {

    public static void main(String[] args) {

        JSONObject student = new JSONObject();
        student.put("name", "Rahul");
        student.put("age", 21);
        student.put("course", "Computer Science");

        JSONObject marks = new JSONObject();
        marks.put("math", 90);
        marks.put("science", 85);
        marks.put("english", 88);

        student.put("marks", marks);

        JSONArray studentsArray = new
            JSONArray();

        JSONObject student1 = new JSONObject();
        student1.put("name", "Rahul");
        student1.put("age", 21);
        student1.put("course", "CS");

        JSONObject student2 = new JSONObject();
        student2.put("name", "Aditi");
        student2.put("age", 22);
```





```
student2.put("course", "IT");
```

```
JSONObject student3 = new JSONObject();  
student3.put("name", "Roham");  
student3.put("course", "ECE");
```

```
studentsArray.put(student1);  
studentsArray.put(student2);  
studentsArray.put(student3);
```

```
System.out.println("JSON Object");  
System.out.println(student.toString(4));
```

```
System.out.println("\n JSON Array");
```

```
System.out.println(studentsArray.  
toString(4));
```

```
System.out.println("In student Name:"  
+ student.getString("name");
```

```
System.out.println("First Student in  
Array:" + studentsArray.getJSONObject(0).getString("name");
```

```
}  
}
```



## Output

JSON Object:

{

  "name": "Rahul",

  "course": "Computer Science",

  "marks": {

    "science": 85,

    "english": 88,

    "math": 90

  }

  "age": 21

}

JSON Array:

[

{

  "name": "Rahul",

  "course": "CS",

  "age": 21

},

{

  "name": "Aditi",

  "course": "IT",

  "age": 22

},

]