

Assignment No. B6

- Title: Implement & create simple objects and array using JSON.
- Problem Statement: Create simple objects & array using JSON.

- Objective: To,
 - 1) Understand the concept objects in JSON
 - 2) Understand the simple array objects.

- Outcome: We will be able to,
 - 1) Implement handling JSON objects in Java.
 - 2) Insert documents in a mongodb database using Java.

- S/W & H/W Requirements:
mongodb, Eclipse or any other Java IDE, 64-bit OS,
8 GB RAM.

Theory:

JSON objects can be created with Java.
Let us see the various ways of creating JSON objects using Java -

- 1) Creating an empty object

`JSONObject jsono;`

- 2) Creating a new object

`JSONObject jsonnew = new JSONObject();`

2) Creating an object with attribute bokname with value in string, attribute price with numeric value. Attribute is accessed by using '.' operator.

```
JSONObject jsonob = new JSONObject("{\"bokname\":  
    \"VB - BLACK BOOK\", \"price\": 500}");
```

Example :

```
JSONObject teacher = new JSONObject();  
teacher.put("name", "Dharmesh Kulkarni");  
teacher.put("qualification", "MSc")  
teacher.put("deptname", "Etc")
```

Creating Array Object :

```
JSONArray conferences = new JSONArray();  
conferences.put("VPR");  
conferences.put("ICC");  
conferences.put("ICRML");
```

Inserting the array into document.

```
teacher.put("conferences", conferences);
```

Connecting to the database :

```
MongoClient mongo = new MongoClient("localhost", 27017);  
DB db = mongo.getDB("database_name");  
DBCollection teachers = db.getCollection("col_name");
```

Conclusion:

We learnt how to handle ^SJSONObjects & JSONArrays and use them in MongoDB.