**// 31139 – Durvesh – DBMSLB6**

**// Sample Code**

package mongo;  
import org.json.JSONArray;  
import org.json.simple.JSONObject;  
import com.mongodb.MongoClient;  
import com.mongodb.\*;  
import java.io.\*;  
  
  
public class Main {  
  
 public static void main(String[] args) {  
 // Inserting plain key-value pairs  
 JSONObject teacher = new JSONObject();  
 teacher.put("name","Dinesh Marathe");  
 teacher.put("qualification","MSc");  
 teacher.put("deptname","EnTC");  
  
 // Inserting Array of value-pairs  
 JSONArray conferences = new JSONArray();  
 conferences.put("CVPR");  
 conferences.put("ICC");  
 conferences.put("ICML");  
  
 // nested Document  
 JSONObject salary = new JSONObject();  
 salary.put("basic",400000);  
 salary.put("TA",20000);  
 salary.put("DA",40000);  
 salary.put("HRA",30000);  
  
 // Inserting array and nested document  
 teacher.put("conferences",conferences);  
 teacher.put("salary",salary);  
  
 System.*out*.println("JSON Object Finalized");  
 System.*out*.println("teacher");  
  
 // Connecting to the database  
 MongoClient mongoClient = new MongoClient("localhost",27017);  
 DB db = mongoClient.getDB("doorways");  
 DBCollection teachers = db.getCollection("teachers");  
  
  
 // Inserting the teacher document  
 BasicDBObject bson = BasicDBObject.*parse*(teacher.toJSONString());  
 teachers.insert(bson);  
  
 // Printing out all the documents in teachers collection  
 DBCursor cursor = teachers.find();  
 while(cursor.hasNext()){  
 System.*out*.println(cursor.next());  
 }  
 System.*out*.println("");  
  
 // Printing out one of the documents  
 bson = BasicDBObject.*parse*("{\"salary.basic\":300000}");  
 cursor = teachers.find(bson);  
 while(cursor.hasNext()){  
 System.*out*.println(cursor.next());  
 }  
 }  
}

**// Outputs**

