

JSON Java examples

CSE219, Computer Science III

Stony Brook University

<http://www.cs.stonybrook.edu/~cse219>

```
{  
  "firstName": "John",  
  "lastName": "Smith",  
  "age": 25,  
  "address" : {  
    "streetAddress": "21 2nd Street",  
    "city": "New York",  
    "state": "NY",  
    "postalCode": "10021"  
  },  
  "phoneNumber": [  
    {  
      "type": "home",  
      "number": "212 555-1234"  
    },  
    {  
      "type": "fax",  
      "number": "646 555-4567"  
    }  
  ]  
}
```

```
import javax.json.Json;
import javax.json.JsonObject;
import javax.json.JsonReader;
import javax.json.JsonWriter;
import java.io.FileInputStream;
import java.io.FileNotFoundException;
import java.io.FileOutputStream;
import java.io.IOException;
import java.io.InputStream;
import java.io.OutputStream;
import java.util.Set;

public class JSONTest {
    public static void readTest() throws IOException {
        String jsonFilePath = "person.json";
        InputStream is = new FileInputStream(jsonFilePath);
        JsonReader jsonReader = Json.createReader(is);
        JsonObject json = jsonReader.readObject();
        jsonReader.close();
        is.close();
        Set<String> keys = json.keySet();
        for(String key:keys){
            System.out.println(key + " is " + json.get(key).toString());
        }
        System.out.println("Read test done.");
    }
}
```

```
public static void writeTest() throws FileNotFoundException {
    String jsonFilePath = "person2.json";
    OutputStream os = new FileOutputStream(jsonFilePath);
    JsonWriter jsonWriter = Json.createWriter(os);
    JsonObject personJsonObject = Json.createObjectBuilder()
        .add("name", "John")
        .add("age", "25")
        .build();
    jsonWriter.writeObject(personJsonObject);
    System.out.println("Write test done.");
}

public static void main(String[] args) throws IOException {
    readTest();
    writeTest();
}
```