JSON Parser

Step 1 : Create JSON File

```java
import java.io.FileWriter;
import java.io.IOException;
import org.json.simple.JSONArray;
import org.json.simple.JSONObject;

public class JsonSimpleExample {
    public static void main(String[] args) {

        JSONObject obj = new JSONObject();
        obj.put("name", "Saurav");
        obj.put("age", new Integer(100));

        JSONArray list = new JSONArray();
        list.add("msg 1");
        list.add("msg 2");
        list.add("msg 3");

        obj.put("messages", list);

        try {

            FileWriter file = new FileWriter("c:\\test.json");
            file.write(obj.toJSONString());
            file.flush();
            file.close();

        } catch (IOException e) {
            e.printStackTrace();
        }
```

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```
        System.out.print(obj);

    }

}


Step 2: Parse using JSON Parser


import java.io.FileNotFoundException;
import java.io.FileReader;
import java.io.IOException;
import java.util.Iterator;
import org.json.simple.JSONArray;
import org.json.simple.JSONObject;
import org.json.simple.parser.JSONParser;
import org.json.simple.parser.ParseException;

public class JsonSimpleExample {
    public static void main(String[] args) {

        JSONParser parser = new JSONParser();

        try {

                Object obj = parser.parse(new
FileReader("c:\\test.json"));

                JSONObject jsonObject = (JSONObject) obj;
```

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```java
                String name = (String) jsonObject.get("name");
                System.out.println(name);

                long age = (Long) jsonObject.get("age");
                System.out.println(age);

                // loop array
                JSONArray msg = (JSONArray) jsonObject.get("messages");
                Iterator<String> iterator = msg.iterator();
                while (iterator.hasNext()) {
                    System.out.println(iterator.next());
                }

        } catch (FileNotFoundException e) {
                e.printStackTrace();
        } catch (IOException e) {
                e.printStackTrace();
        } catch (ParseException e) {
                e.printStackTrace();
        }

    }

}
```

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