Gson Example Programs (-by Mr. RAGHU)

Gson Jar Download Link:

https://repo1.maven.org/maven2/com/google/code/gson/gson/2.8.2/gson-2.8.2.jar

Student.java:-

```java
package com.app;

import com.google.gson.annotations.Expose;

public class Student {
    @Expose
    private  int sid;
    @Expose(deserialize = false)
    private String sname;
    @Expose(serialize = false)
    private transient double sfee;
    //alt+shift+s > O > DeselectAll >OK
    public Student() {
        super();
    }
    //alt+shift+s > R > SelectAll >OK
    public int getSid() {
        return sid;
    }
    public void setSid(int sid) {
        this.sid = sid;
    }
    public String getSname() {
        return sname;
    }
    public void setSname(String sname) {
        this.sname = sname;
    }
    public double getSfee() {
        return sfee;
    }
```

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```java
    public void setSfee(double sfee) {
        this.sfee = sfee;
    }
    //alt+shift+S,S>OK
    @Override
    public String toString() {
        return "Student [sid=" + sid + ", sname=" + sname
+ ", sfee=" + sfee + "]";
    }

}
```

2. ObjectToJson.java:-

```java
public class ObjectToJson {
public static void main(String[] args) {
        try(Writer w=new FileWriter("aa.json")) {
            Student s=new Student();
            s.setSid(10);
            s.setSname("RAGHU");
            s.setSfee(3.6);
            Gson g=new GsonBuilder()
                    .serializeNulls()
    .excludeFieldsWithoutExposeAnnotation()
                    .setPrettyPrinting()
                    .create();
            String json=g.toJson(s);
            g.toJson(s, w);//writing to file
            System.out.println(json);
        } catch (Exception e) {
            System.out.println(e);
        }
        System.out.println("done");
    }

}
```

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3.JsonToObject.java:-

```java
package com.app;

import java.io.FileReader;

import com.google.gson.GsonBuilder;

public class JsonToObject {

    public static void main(String[] args) {
        try {
                FileReader f=new FileReader("aa.json");
//String f="{\"sid\":11,\"sname\":\"A\",\"sfee\":3.6}";
                Student s=new GsonBuilder()

    .excludeFieldsWithoutExposeAnnotation()
                    .create()
                    .fromJson(f, Student.class);
            System.out.println(s);

        } catch (Exception e) {
            // TODO: handle exception
        }
    }
}
```

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