

PERSISTENCE

IN COMPUTER SCIENCE, PERSISTENCE
REFERS TO THE CHARACTERISTIC OF
STATE THAT OUTLIVES THE PROCESS
THAT CREATED IT.

SAVING TO DISK

- Use Gson to convert Object to JSON String
 - Create OutputStream from Context's `openFileOutput(String fileName, int mode)` method
- Use a Writer to write the JSON String to disk
 - Close Writer

OPENFILEOUTPUT

Open a private file associated with this Context's application package for writing.

RETRIEVING DATA FROM DISK

- Create InputStream from Context's `openFileInput(String fileName)` method
- Use a reader to read contents of file and create a JSON String
- Use Gson to convert JSON String to object(s)

OPENFILEINPUT

Open a private file associated with this Context's application package for reading.

CODE

SAVE

```
Car[] cars = {car1, car2, car3, car4};

String carsString = sGson().toJson(cars, Car[].class); // sGson is a static instance of Gson
Writer writer = null;

try {
    OutputStream out = mContext.openFileOutput(mFileName, Context.MODE_PRIVATE);
    writer = new OutputStreamWriter(out);
    writer.write(peopleString);
} catch (FileNotFoundException e) {
    e.printStackTrace();
} catch (IOException e) {
    e.printStackTrace();
} finally {
    if (writer != null){
        writer.close();
    }
}
```


LOAD

```
List<Car>cars = new ArrayList<Car>();

BufferedReader reader = null;
try{
    InputStream inputStream = mContext.openFileInput(mFileName);
    reader = new BufferedReader(new InputStreamReader(inputStream));
    StringBuilder jsonString = new StringBuilder();
    String line = null;
    while((line = reader.readLine()) != null){
        jsonString.append(line);
    }
    Car[] carArr = sGson().fromJson(jsonString.toString(), Car[].class);

}catch (FileNotFoundException e){

}finally {
    if (reader != null){
        reader.close();
    }
}
return carArr;
```

REFACTOR: ANONYMOUS INNER
CLASS -> IMPLEMENTING INTERFACE