

## Exercise 6-3

### Custom application – building application core

**Task:** Complete gaps in code of the Status Log FGV API

Use Bookmark manager to navigate through tasks in the application

#### 6-3.1 Update Open Status file diagram in Status Log FGV.vi (Fig. 1):

- the file should be opened or created in **logs** directory
- if the folder does not exist, it should be created
- filename format: **log YYYY-MM-DD.txt** (connect to **format string** input)
- file should be opened in **read/write** mode
- file position should be set to the **end** after opening

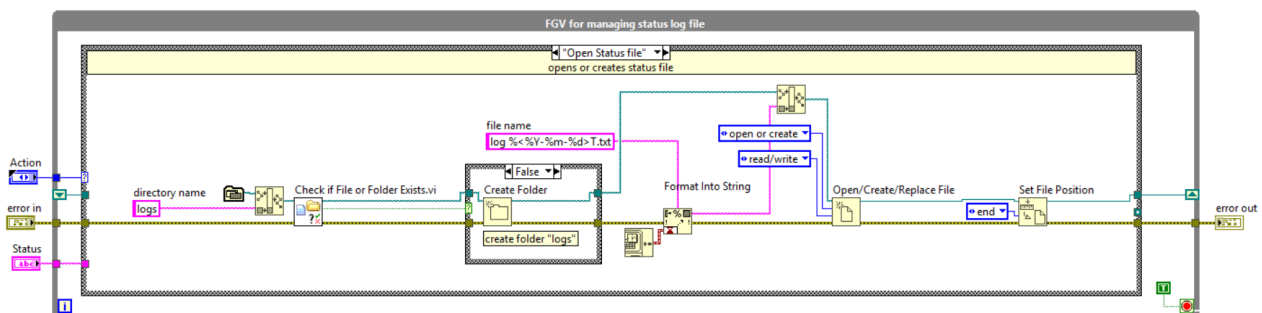


Fig. 1. Opening or Creating file

#### 6-3.2 Update Add status diagram in Status Log FGV.vi:

Change status line format to: **DD.MM.YYYY hh:mm:ss <status>** (Fig. 2)

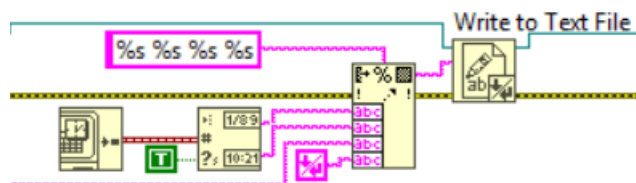
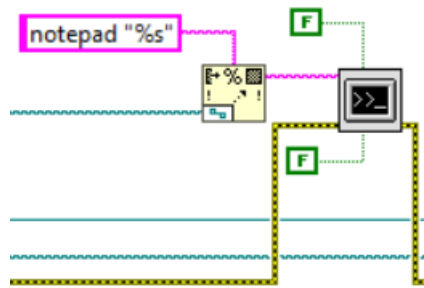


Fig. 2. Adding status line

#### 6-3.3 Update Show Status file diagram in Status Log FGV.vi:

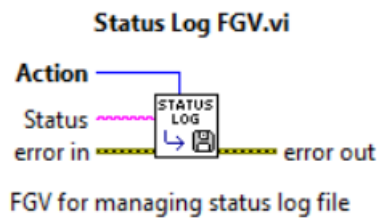
Add proper command line and parameters for **System Exec.vi** to open current status log file in the Windows Notepad (Fig. 3)



**Fig. 3. Opening status file in Notepad**

### 6-3.4 Update Status Log FGV icon and help (Fig. 4):

- Update Connector Pane and add Description for Context Help (VI Properties >> Documentation)
- Use Icon editor to create custom icon (filter glyphs: *get*, *file*)



**Fig. 4. Status Log FGV context help and icon**

### 6-3.5 Place Status Log FGV in the proper locations of Main.vi:

- a) **Open Status file** at the beginning of the application (Fig. 5a)
- b) **Add Status** in the Update display case of UI MHL (Fig. 5b)

