Open program

**PlannerSetup()** – chooses a planner and opens it

**String promptFilename(string filename) –** prompt the user for a desired filename and takes it in

**openFile(string filename) –** open the file and display the contents

**initDatabase() –** Initialize Database

**display()**

USER INPUT

**storeLine()** – store the original command line

**detectCommand()** -

if “add”

**processAdd()** – add entry to planner

**getInformation()** – takes in information and tokenize

**storeInformation()** – store information in planner

**display()** – update GUI

if “delete”

**storeTarget()** – store target number to facilitate undo

**processDelete()** – delete entry from planner

**checkContentPresent()** – check if entry exists

if false return ‘failed’

if true

**storeTempEntry()** – store the content of target entry in temp state to facilitate undo

delete entry

**display()** – update GUI

if “edit”

**storeTarget()**

**processEdit()** – edit entry contents

**checkContentPresent()** – check if entry exists

if false return ‘failed’

if true

**displayEdit()** – display the content of target entry

**storeTempEntry()**

**processDelete()**

USER INPUT

**processAdd()**

if “clear”

**processClear()**

**checkContentPresent()**

for (database length)

if true

continue

if false

return already empty

**checkUserClear()** – check if user indeed wants to clear

**clearConfirm ()** – Y or N

**clearPlanner()** – execute clear

**display()** – update GUI

if “undo”

**processUndo()**

**processEdit()**

using parameters storeTarget() and storeTempEntry()

if “search”

**processSearch()**

**getKeyword()**

**keyWordFound()**

**display()**

if “help”

**processHelp()** – display a help window in GUI