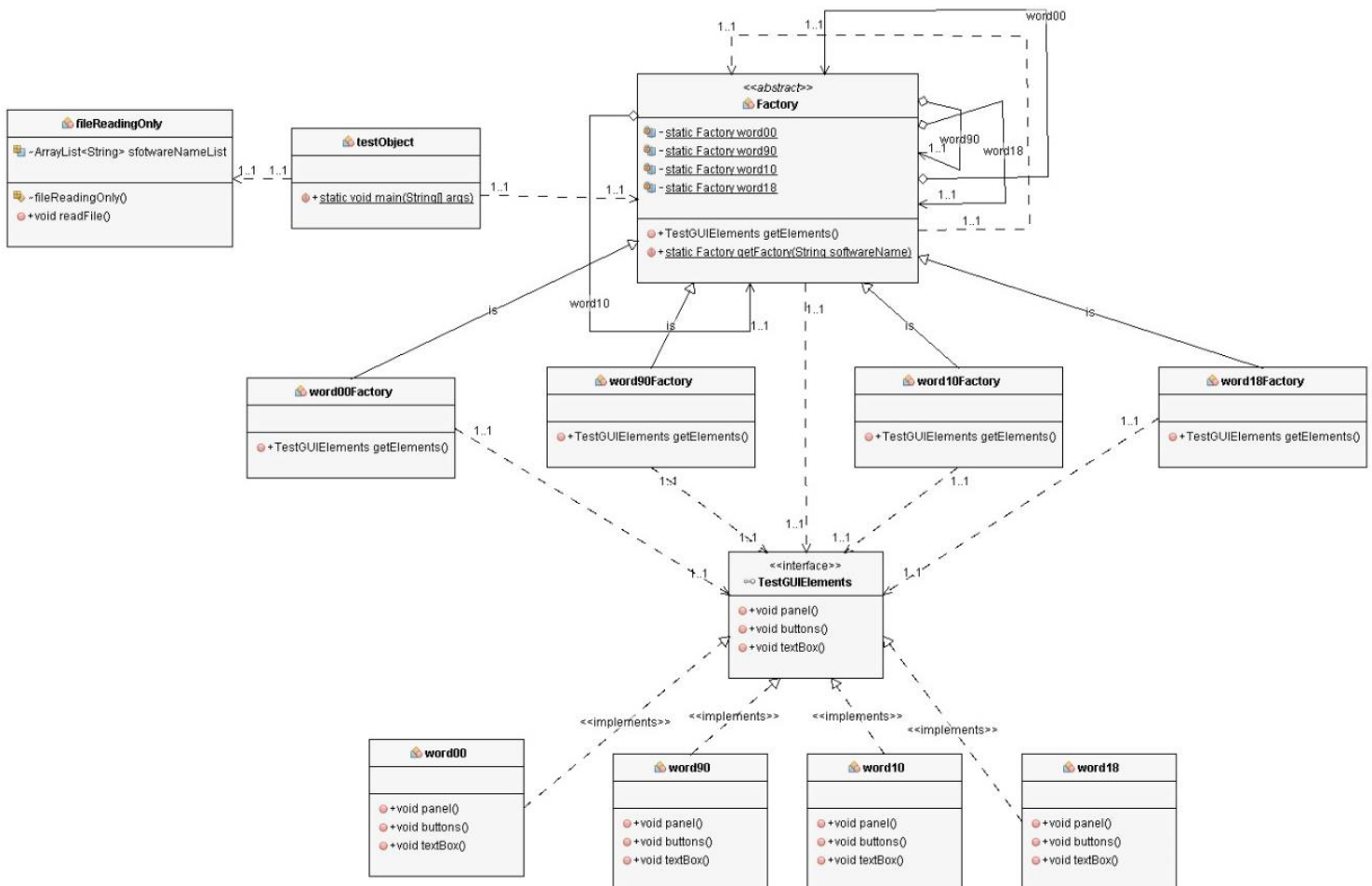Hisham Hussein
02/16/2019
CIS 476

Project One design patterns

Factory and singleton

UML Class diagram:

Screenshot:

Output One

```
run:

Word90
Panel word90, Button word90, TextBox word90

Word00
Panel word00, Button word00, Textbox word00

Word90
Panel word90, Button word90, TextBox word90

Word18
Panel word18, Button word18, Textbox word18

Word10
Panel word10, Button word10, Textbox word10

Word00
Panel word00, Button word00, Textbox word00

Word18
Panel word18, Button word18, Textbox word18

Word90
Warning software name Word90 wants to run again(Y=Yes or N=No): N
Testing Word90 was canceled

Word00
Warning software name Word00 wants to run again(Y=Yes or N=No): N
Testing Word00 was canceled
BUILD SUCCESSFUL (total time: 15 seconds)
```

Output Two

```
run:

Word90
Panel word90, Button word90, TextBox word90

Word00
Panel word00, Button word00, Textbox word00

Word90
Panel word90, Button word90, TextBox word90

Word18
Panel word18, Button word18, Textbox word18

Word10
Panel word10, Button word10, Textbox word10

Word00
Panel word00, Button word00, Textbox word00

Word18
Panel word18, Button word18, Textbox word18

Word90
Warning software name Word90 wants to run again(Y=Yes or N=No): Y
Panel word90, Button word90, TextBox word90

Word00
Warning software name Word00 wants to run again(Y=Yes or N=No): Y
Panel word00, Button word00, Textbox word00
BUILD SUCCESSFUL (total time: 7 seconds)
```

Output Three

```
run:

Word90
Panel word90, Button word90, TextBox word90

Word00
```

Output Four

```
run:

Word90
Panel word90, Button word90, TextBox word90

Word00
Panel word00, Button word00, Textbox word00

Word90
Panel word90, Button word90, TextBox word90

Word18
Panel word18, Button word18, Textbox word18

Word10
Panel word10, Button word10, Textbox word10

Word00
Panel word00, Button word00, Textbox word00

Word18
Panel word18, Button word18, Textbox word18

Word90
Warning software name Word90 wants to run again(Y=Yes or N=No): N
Testing Word90 was canceled

Word00
Warning software name Word00 wants to run again(Y=Yes or N=No): N
Testing Word00 was canceled
BUILD SUCCESSFUL (total time: 5 seconds)
```