

CSIS 222 Object Oriented Programming With Java

Project: PRJ05

Points Possible: 100

Name your IntelliJ IDEA project as follows : PRJ05

The purpose of the project is to do the following:

Create a class named [PRJ05] in the package “com.mcc.exec”

Create a class named [AdderPanel] in the package “com.mcc.panel”

Create a class named [MenuPanel] in the package “com.mcc.panel”

Create a class named [FunctionLibrary] in the package “com.mcc.util”

The main “driver” program (PRJ05) will obviously be a JFrame, that will contain two JPanels :: The menu JPanel will be placed in the BORDERLAYOUT -> WEST section and the adder JPanel will be placed in the BORDERLAYOUT -> CENTER section.

The “Menu Panel” class should be named “MenuPanel”. This panel should contain any and all necessary JLabels, JTextFields and JButtons with which to enter two integers of any length and upon clicking the ADD button, display the sum in the result textfield (see the screenshot)

The “Adder Panel” class should be named “AdderPanel”. This panel should, when the user clicks the “Add” button on the menu panel, call the method :

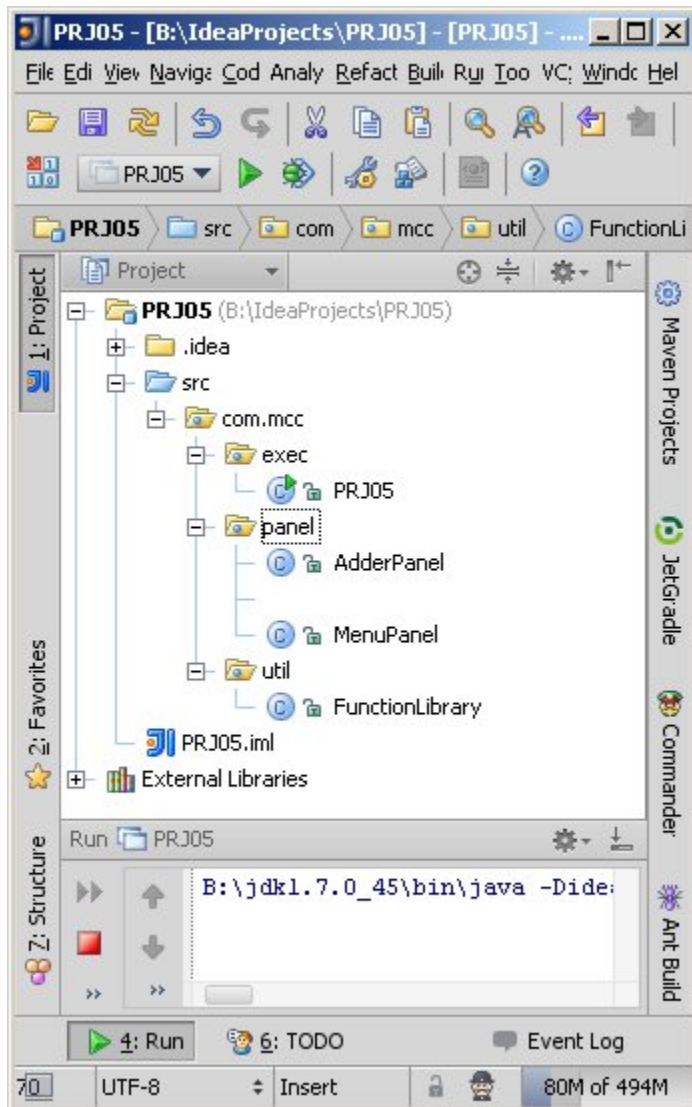
```
[public static String performAddition(String sNumber1, String sNumber2)]
```

in the FunctionLibrary class, and display the sum (or any exceptions) in the result textfield (see the screenshot)

The driver program should do the following:

- Instantiate the two panels and place them in the appropriate BORDER_LAYOUT positions
- In the MENU panel, set a reference to the ADDER panel
- Set the size of the JFRAME to 700 by 200

Your project tree layout will look essentially like this :



Display the following output exactly as shown on the screenshot(s) ::

Number 1:	ggggg
Number 2:	hhhhhhhhh
Result:	java.lang.NumberFormatException: For input string: "g"
<input type="button" value="Add"/>	

Number 1:	23456987623
Number 2:	563987296387346583764523
Result:	563987296387370040752146
<input type="button" value="Add:"/>	

Number 1:	12345
Number 2:	98765
Result:	111110
<input type="button" value="Add:"/>	

Number 1:	4786376583034786127634958716789236578956789235
Number 2:	345987698374987526394785126359123785692347856289736918375
Result:	345987698379773902977819912486758744409137092868693707610
<input type="button" value="Add:"/>	

The program must compile, build, launch, and run correctly.

When you are done with the assignment there should be at least three self-written file(s), consisting of the source code file(s): PRJ05.JAVA, AdderPanel.JAVA, MenuPanel.JAVA, FunctionLibrary.JAVA and any other appropriate JAVA files (along with any and all other associated IntelliJ IDEA project files)

The final version of the program must have all the code for meeting the problem specifications.

Refer to the syllabus for instructions on how to submit your project for grading.