Questions

1. **Applet #1 (Layout Managers and Panels):** Change the Applet you developed for Week 6's Tutorial Question 1 to use Layout Manager(s) to achieve a neater result. Utilise panels that use all of the Layout Manager(s) we have covered this week. For example, go for something like this:

   ![Applet Image]

   - Make sure you carefully plan your interface and follow the advice on the Layout Managers - Pay *VERY* Careful Attention to this Advice !!! slides in this week's lecture material.
• **Estimated Amount of Work to do this:** 30 mins.

• This will help you understand Layout Managers, Panels, etc and will therefore help you with Assignment 2 !! (Even though it is for an Applet and NOT a Windowed Application, but the principles are still the same).

2. **Applet #2 (Layout Managers and Panels):** Finish off the **Multiple Panels - Example #3** that we started to develop in this week's lecture to implement the following design.

![Diagram of layout design](image)

- We have a 2 x 2 grid, and inside this grid we have:
  a. A 3 x 2 Grid in the top left.
  b. A Border layout in the top right, with a grid layout panel inside the CENTER area.
  c. A flow layout in the bottom left.
  d. And a 4 x 3 Grid in the bottom right with a BorderLayout panel inside the first cell and a Flow layout panel inside the second cell.

- Make sure you carefully plan your interface and follow the advice on the Layout Managers - Pay *VERY* Careful Attention to this Advice !!! slides in this week's lecture material.

- **Estimated Amount of Work to do this:** 30 mins.

- This will help you understand Layout Managers, Panels, etc and will therefore help you with Assignment 2 !! (Even though it is for an Applet and NOT a Windowed Application, but the principles are still the same).

3. **Applet #3 (Layout Managers and Panels):** Plan the user interface you will need to create for this term's Assignment 2, and create a non-functional prototype of this interface in a Java Applet.

- Make sure you carefully plan your interface and follow the advice on the Layout Managers - Pay *VERY* Careful Attention to this Advice !!! slides in this week's lecture material.

- **Note VERY Well:**
a. **Assignment 2** is a **Windowed Application** – *NOT* an **Applet** – and we have NOT covered Windowed Applications yet.

b. However, the work you do now to plan and develop a prototype of the interface will help you a great deal with **Assignment 2**.

c. Do not worry about creating all of the radio buttons, etc – just create a few so you can get the basic layout right.

d. Don't bother trying to make anything functional or working.

e. Just concentrate on getting the basic look right.

- **Estimated Amount of Work to do this**: 60 mins.
- This will help you understand Layout Managers, Panels, etc and will therefore help you with Assignment 2 !! (Even though it is for an Applet and NOT a Windowed Application, but the principles are still the same).
**Tutorial Solutions**

Please Note:

- **ATTENTION:** SOLUTIONS ARE BELOW !!!
- Only look at these solutions when you have made good attempts at the questions—otherwise you will NOT learn !

1. **Applet #1 (Layout Managers and Panels):**
   - No solution provided.
   - The examples presented in the lecture cover all of these topics. It is time for you to put what we have covered into practice.
   - This will help you understand Layout Managers, Panels, etc and will therefore help you with Assignment 2 !! (Even though it is for an Applet and NOT a Windowed Application, but the principles are still the same).

2. **Applet #2 (Layout Managers and Panels):**
   - No solution provided.
   - The examples presented in the lecture cover all of these topics. It is time for you to put what we have covered into practice.
   - This will help you understand Layout Managers, Panels, etc and will therefore help you with Assignment 2 !! (Even though it is for an Applet and NOT a Windowed Application, but the principles are still the same).

3. **Applet #3 (Layout Managers and Panels):**
   - No solution provided.
   - The examples presented in the lecture cover all of these topics. It is time for you to put what we have covered into practice.
   - This will help you understand Layout Managers, Panels, etc and will therefore help you with Assignment 2 !! (Even though it is for an Applet and NOT a Windowed Application, but the principles are still the same).