



CS F213 - Object Oriented Programming

J. Jennifer Ranjani email: jennifer.ranjani@pilani.bits-pilani.ac.in

Chamber: 6121 P, NAB

Consultation: Appointment by e-mail

https://github.com/JenniferRanjani/Object-Oriented-

Programming-with-Java

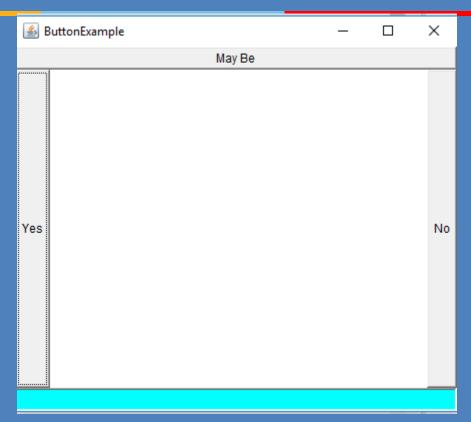
Query asked during previous class



- Object getSource() is the method in the EventObject class, which is the super class of all Event classes.
- How b[0] = (Button) f.add(y); worked without instanceOf operator?
 - Let's the see the downcasting example again!!!

innovate achieve lead

Border Layout - Example

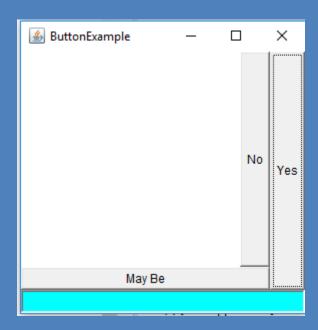


What will happen if we try to add more components in the same region?

lead

Solution

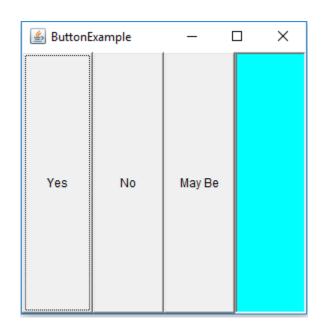
- Will adding two frames work?
- If not, what is the solution?

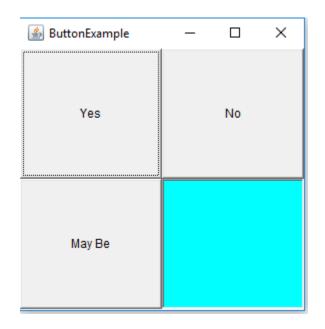




Grid Layout

Lays the components in a two dimensional grid





No argument constructor

Two argument constructor



Review Question

 Design the mine sweeper game using 25 buttons arranged in a 5 x 5 grid layout.

Let's put things together



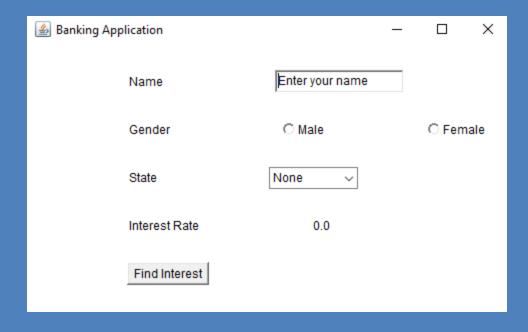
(code available on: https://github.com/JenniferRanjani/Object-Oriented-Programming-with-Java)

Banking Application −			_		×
Name		Jenny			
Gender	•	O Male		Fem	ale
State		TamilNadu ∨			
Interes	Rate	7.80			
Find Ir	nterest				
The interest rate for Jenny(Female) fromTamilNadu is: 7.80					



Review Question

Update the Banking Application to display an error message when the user tries to submit the form before entering the name or selecting the gender or the state. The initial appearance of the GUI is shown below





Grid Bag Layout

- It places components in a grid of rows and columns, allowing specific components to span multiple rows and columns
- Not all rows and columns necessarily have the same height and width respectively.
- It has more control over how the components are arranged.
- Location and size of each component is determined by a set of constraints linked to it.



Grid Bag Layout

 Refer the GitHub link for an example code. Play with it to understand the impact of the grid bad constraints.