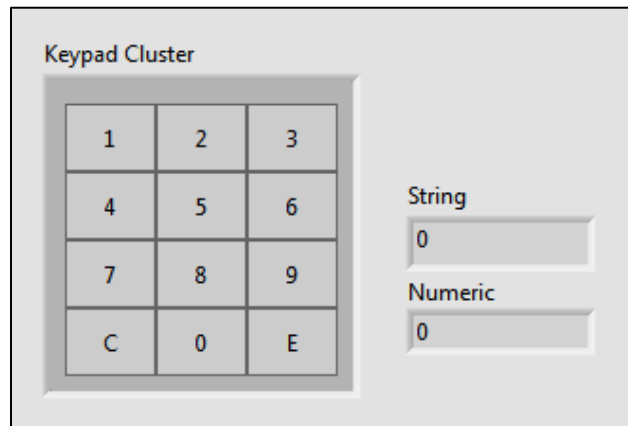


## **CLD Exercise 17: GUI Keypad Simulation**

### **Objective**

Develop a VI that simulates a keypad using the given application front panel (Figure 1).



**Figure 1.** Application Front Panel

### **General Operation**

The VI must continuously run until the **E** key is pressed. While the VI is running, the **String** indicator must display the number. When the **C** key pressed, the **String** indicator must clear any numbers and display 0. When the **E** key is pressed, the number in the **String** indicator must be converted to a numeric value and displayed in the **Numeric** indicator.

For example: if keys 5678 are consecutively pressed, the **String** indicator must display 5, then 56, then 567 and finally 5678.

### **Application Terminology**

<b>Keypad</b>	Cluster of Booleans
<b>String</b>	String indicator
<b>Numeric</b>	Numeric indicator

### **Initialization**

The application must initialize as shown in Figure 1, and the front panel controls and indicators must be in the following states.

- **String:** Set to 0
- **Numeric:** Set to 0

### **Questions**

How would the solution application change if the Boolean Text of the button was used to indicate the button pressed?