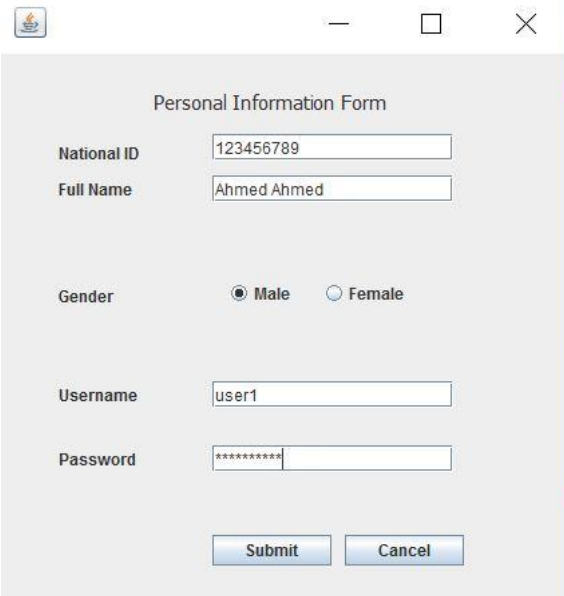


**King Saud University**  
**College of Computer and Information Sciences**  
**Department of Computer Sciences**  
**CSC-113, Computer Programming II – Fall (2016/2017)**  
**“Graphical User Interface (GUI)”**  
**(TUTORIAL - SOLUTION)**

**Exercise 01:**

In order to implement the following Java GUI, which of the following Constructors are required:



The screenshot shows a window titled "Personal Information Form" with a standard Java Swing look. It contains the following elements:

- National ID:** A text field containing the value "123456789".
- Full Name:** A text field containing the value "Ahmed Ahmed".
- Gender:** Two radio buttons labeled "Male" and "Female". The "Male" radio button is selected.
- Username:** A text field containing the value "user1".
- Password:** A password field containing seven asterisks "\*\*\*\*\*".
- Buttons:** Two buttons labeled "Submit" and "Cancel" are located at the bottom of the form.

- a. JFrame
- b. JTextField
- c. JPasswordField
- d. JButton
- e. **All of the above (Answer)**

**Exercise 02:**

The serialization class *serialVersionUID* is used to:

- a. Version number to the class load for Sender only
- b. Version number to the class load for Receiver only
- c. **Version number to the class load for both Sender and Receiver (Asnwer)**

### Exercise 03:

Write the Java code block for:

- a. An empty text field
- b. Set the Text of the field
- c. Set the number of the Columns

**Answer :**

```
JTextField textField = new JTextField();  
textField.setText("Java GUI Tutorial");  
textField.setColumns(35);
```

### Exercise 04:

Add the Text field used in previous exercise in the Java Container (frame). Demonstrate how it can be added in ***frame, dialog, panel*** and ***applet***.

**Answer :**

```
frame.add(textField);  
dialog.add(textField);  
panel.add(textField);  
applet.getContentPane().add(textField);
```