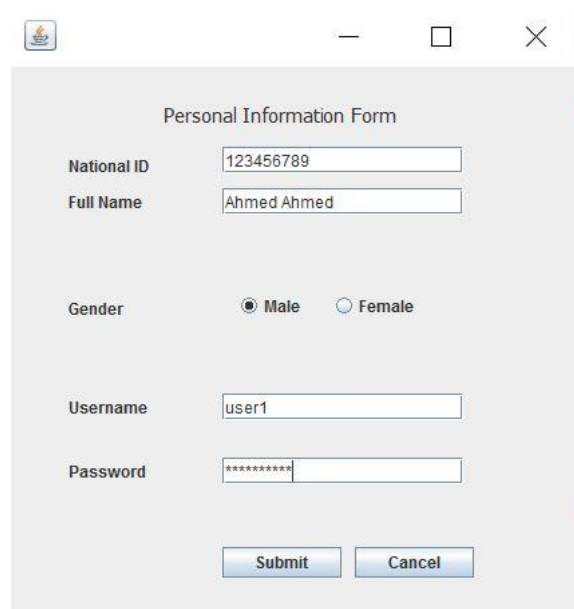


King Saud University
College of Computer and Information Sciences
Department of Computer Sciences
CSC-113, Computer Programming II – Fall (2016/2017)
“Graphical User Interface (GUI)”

Lab Exercise:

Implement the Java Class *PersonalInforRegistration* extends *JFrame*, import “*javax.swing*” components; *ButtonGroup*, *JFrame*, *JLabel*, *JTextField*, *JRadioButton*, *JPasswordField*, *JButton* and “.awt” component *Font*.

The class should implement a Java Graphical User Interface (GUI) displaying four text fields, radio button group and two buttons. All with proper Labels as illustrated below:



The screenshot shows a window titled "Personal Information Form" with a standard Windows-style title bar (minimize, maximize, close buttons). The form contains the following elements:

- National ID:** A text field containing "123456789".
- Full Name:** A text field containing "Ahmed Ahmed".
- Gender:** A radio button group with "Male" selected and "Female" unselected.
- Username:** A text field containing "user1".
- Password:** A password field containing "*****".
- Buttons:** Two buttons at the bottom: "Submit" and "Cancel".

Class Declaration:

```
public class PersonalInformaatRegistration  
    extends JFrame
```

Constructors:

- ButtonGroup

- JFrame
- JTextField
- JPasswordField
- JButton
- JLabel
- JRadioButton
- Font (.awt)

Complete the following pseudocode:

```
import javax...;
import ...
.
.
.
public class PersonalInformaatRegistration extends JFrame {
//Serialization of Class version number to the class load for Sender/Receiver by
using serialVersionUID

//Components that allows editing of a single line text
public JTextField ... (){
.
.
}

//Setting the Text of JTextField Component
.
.

//JFrame Class

private JFrame frame;

//JPasswordField, used to allow editing of a single line text with showing
characters
public JPasswordField ...() {
.
.
}
public void set...(values) {
.
.
}
private JTextField txtFName;

//initializing button group object. Turn ON one of the buttons and turning OFF
others
ButtonGroup bg = new ButtonGroup();
.
.
.
public static void main(String[] args) {
```

```

//Initializing the try block in-case of exceptions
.
.
//Show-Hide window parameter using *.setVisible(value)
// window size fit according to its subcomponents using *.pack()
}
catch (...)
{
//handles the exception that occurs within the associated try
//prints stack trace on the output stream using printStackTrace();
}
}
public PersonalInformaatRegistration() {
initialize();
}
//Initializing GUI Components including frames and all Constructors
{
//Initialize frame using setBounds();
//Specify close operation using setDefaultCloseOperation();
//Set Layout to null to invalidate component failure using setLayout();
//Implement Label "Full Name" and return it to frame object using using
getContentPabe().add()
//Implement the main heading as a label "Personal Information Form"
//Set fonts using setFont();
//Implement the Text Field "Full Name", setColumn() values and return it to frame
//Add label Gender
//Implement Radio Button (Male/Female) used with ButtonGroup object
//Add Label "National ID"
//Add editable Text Field "National ID" (JTextField());
//Add label "Username"
//Add editable Text Field "Username" (JTextField());
//Add label "Password"
//Add editable Text Field "Password" (JTextField());
//Add button "Submit" (JButton());
//Add button "Clear" (JButton());
//Set echo characters to display while typing password using setEchoChar(). Value 0
means no hiding
//Add a dummy login action
}
private void actionlogin() { //OPTIONAL
    // Login method (OPTIONAL)
}
}
}

```