NAME: LEVANNYAH A/P RAJASEGARAN

**MATRIC NO.: BI19160337** 

**COURSE: KK14203 OBJECT ORIENTED PROGRAMMING (SECTION 1)** 

**LECTURER: DR MOHD SHAMRIE SAININ** 

## LAB 7

1. Add Menu Bar at the top with menu 'Load Data' to read from file and view in the output textarea. Menu 'Exit' to show 'showConfirmDialog' and exit the application if user select 'yes' in the dialog.

```
class MenuActionListener implements ActionListener {
   FormPanel fp;
   //receive FormPanel class to this constructor
   public MenuActionListener(FormPanel p){
        fp = p;
   }

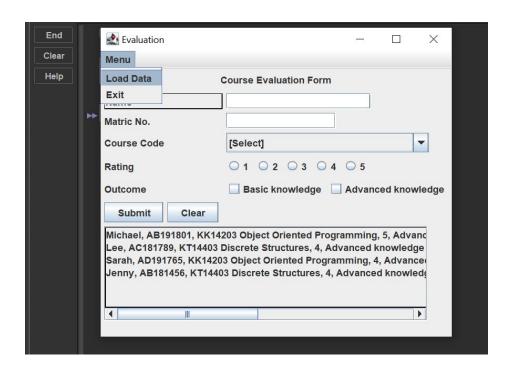
   public void actionPerformed(ActionEvent e) {
        BufferedReader reader;
        try {
            reader = new BufferedReader(new FileReader(fp.filePath));
        String line = reader.readLine();
        String output="<html";
        while (line != null) {
                output += line + "<br";
                // read next line
                line = reader.readLine();
        }
            output += "<br";
            fp.lbl_output.setText(output);
            reader.close();
        } catch (IOEXception io) {
            fp.lbl_output.setText(io.toString());
        }
    }
}</pre>
```

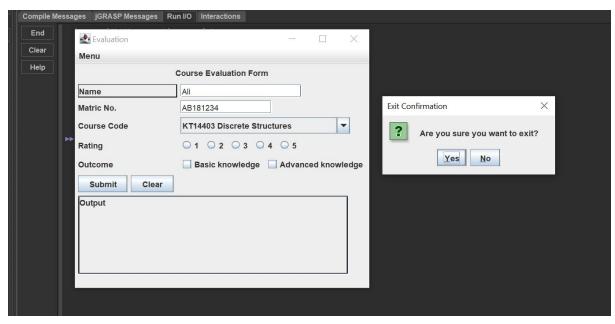
```
class MenuActionListener2 implements ActionListener{
   FormPanel fp;
   public MenuActionListener2(FormPanel p){
        fp = p;
   }

//for exit confirmation
   public void actionPerformed(ActionEvent e){
        int confirm = JoptionPane.showConfirmDialog(null, "Are you sure you want to exit?", "Exit Confirmation", JOptionPane.YES_NO_OPTION);
        if (confirm == JoptionPane.YES_OPTION)
        System.exit(0);
   }
}
```

```
// create menuitems
JMenuItem m1 = new JMenuItem("Load Data");
// attach listener and send FormPanel class
m1.addActionListener(new MenuActionListener(fp));

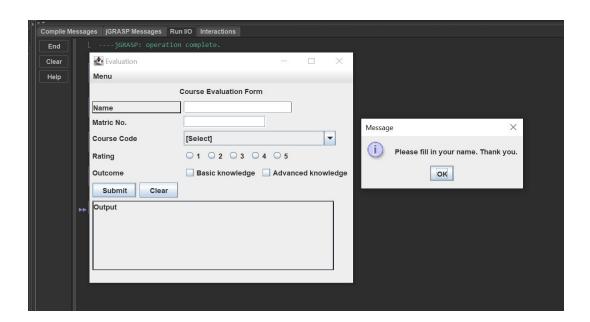
JMenuItem m2 = new JMenuItem("Exit");
m2.addActionListener(new MenuActionListener2(fp));
```

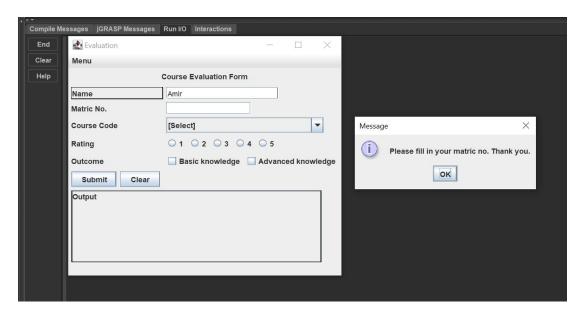


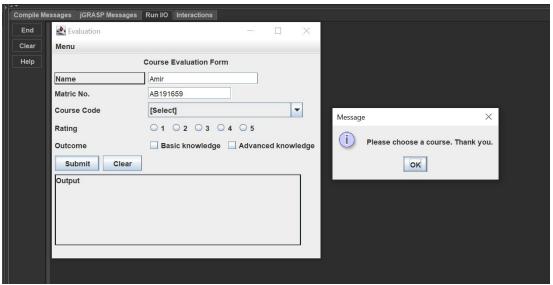


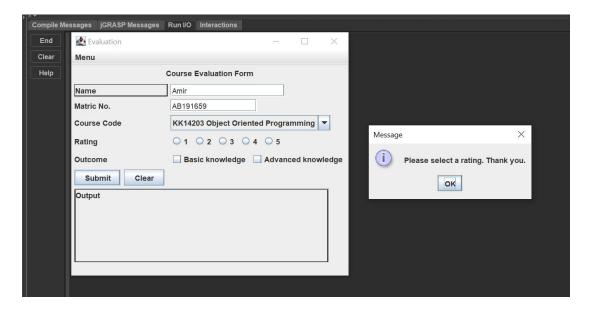
2. Input validation from all input to check if user empty field or selections when user click 'Submit' button.

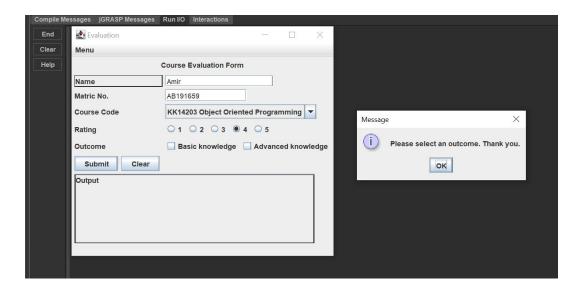
```
public boolean printOutput(){
    output = "<html";
    output += "Thank you for your evaluation<br/>
    if(name.getText().isEmpty()){
        JOptionPane.showMessageDialog(null, "Please fill in your name. Thank you.");
        return false;
    }
    output += "Name: " + name.getText() + "<br/>
    if(matric.getText().isEmpty()){
        JOptionPane.showMessageDialog(null, "Please fill in your matric no. Thank you.");
        return false;
    }
    output += "Matric: " + matric.getText() + "<br/>;
    if(code_selection.equals("[Select]") || code_selection.equals(" ")){
        JOptionPane.showMessageDialog(null, "Please choose a course. Thank you.");
        return false;
    }
    output += "Course: " + code_selection + "<br/>
    if(rb_selection.equals(" ")){
        JOptionPane.showMessageDialog(null, "Please select a rating. Thank you.");
        return false;
    }
    output += "Rating: " + rb_selection + "<br/>
    if(cb_selection.equals(" ")){
        JOptionPane.showMessageDialog(null, "Please select an outcome. Thank you.");
        return false;
    }
    output += "Outcome: " + cb_selection + "<br/>
    output += "Outcome: " + cb_selection + "<br/>
    output += "</html>";
    lbl_output.setText(output);
    jsp.getViewport().revalidate();
    return true;
```



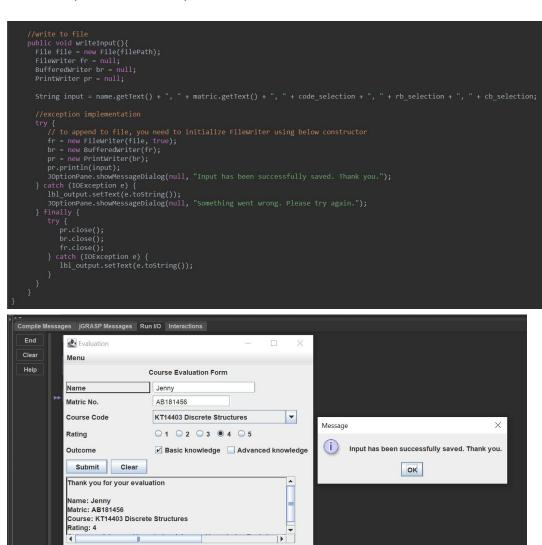








3. Save (add) the data into a text file with dialog notification (e.g. showMessageDialog) whether input is successfully saved.



4. Implement at least ONE (1) exception handling (e.g. file IO and dealing with empty input field.

```
//exception implementation
try {
    // to append to file, you need to initialize FileWriter using below constructor
    fr = new FileWriter(file, true);
    br = new BufferedWriter(fr);
    pr = new PrintWriter(br);
    pr.println(input);
    JOptionPane.showMessageDialog(null, "Input has been successfully saved. Thank you.");
} catch (IOException e) {
    lbl_output.setText(e.toString());
    JOptionPane.showMessageDialog(null, "Something went wrong. Please try again.");
} finally {
    try {
        pr.close();
        br.close();
        fr.close();
        fr.close();
        }
    catch (IOException e) {
        lbl_output.setText(e.toString());
    }
}
}
}
}
```