Lab 14

Create a new Eclipse project named YourStudentId Lab14.

1. Create a class named MyTimer and implement the main method based on the following instructions.

2. Import following classes to MyTimer

```
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;
import javax.swing.Timer;
import javax.swing.JButton;
import javax.swing.JFrame;
```

3. Declare the following variables as private static attributes:

Modifier and type	Method (or Variable) and description
final int	FRAME_WIDTH
	The width of the frame. (width $= 100$)
final int	FRAME_HEIGHT
	The height of the frame. (height $= 60$)
int	timeCount
	Counts elapsed time. Set default value as 0.
Timer	timer
	The timer object.

- 4. Implement two ActionListeners, TimerListener and ClickListener, as inner classes.
 - TimeListener

Updates elapsed time count (+5) and prints elapsed time in the console.

- ClickListener

Prints a message "Timer started!" in the console and starts the timer.

- 5. Instantiate a JFrame object named frame.
- 6. Instantiate a JButton object named button and set text "Start Timer" by using the constructor.
- 7. Add button to frame.
- 8. Instantiate timer object with time interval 5000 milliseconds and assign TimerListener to it.
- 9. Assign ClickListener to button.
- 10. Set frame's width as FRAME WIDTH and height as FRAME HEIGHT.
- 11. Set frame's default closed operation as JFrame.EXIT ON CLOSE.
- 12. Set frame visible.

API Reference

Constructor and Description		
Timer(int delay, ActionListener listener)		
Creates a Timer and initializes both the initial delay and between-event delay to delay milliseconds.		
JButton(String text)		
Creates a button with text.		

Modifier and Type	Method and Description
Component	add(Component comp)
	Appends the specified component to the end of this container.
void	addActionListener(ActionListener l)
	Adds an ActionListener to the button.

Submission: Submit your project as "zip (or rar) file" via WM5. No other submissions will be graded.

Reminder: Please zip the whole project

Deadline: Tomorrow's midnight (for both Mon56 and Tue23)