

Microwave Oven

Requirements:

- Java Code
- NetBeans IDE
- Documentation

Groupmates:

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Deadline : March 17 2022

Pair : Shane Marie Mon

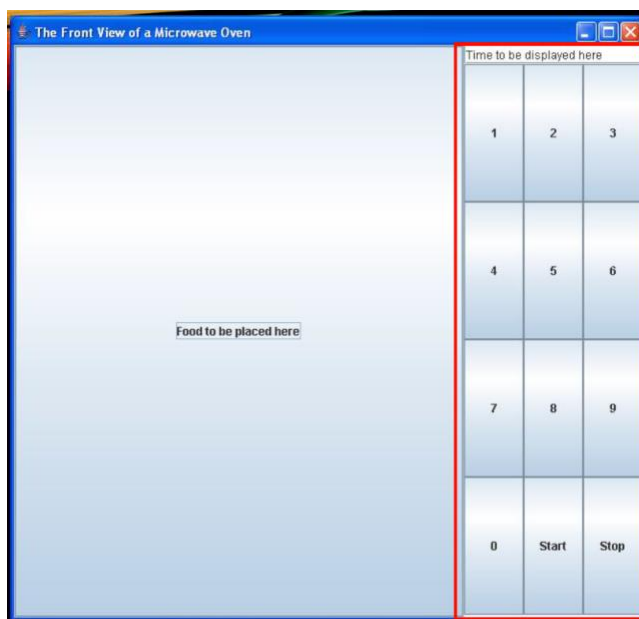
Subject : ComProg LAB 3

Contributions : BRION – Java Program Software Developent

MON – Java Documentation

Lecture Activity Problem:

1. Create a microware oven interface using JButtons and Layout Manager for positioning.
2. Sample Output:



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Here are the source code that we used. See description in every photo below.

```
JPanel OvenBackground, ButtonsPanel, Microwave, Title;
JButton one, two, three, four, five, six, seven, eight, nine, zero, Enter, Reset;
JLabel Product, cooking;
JTextField Input;
```

In this part of the Java Swing, we have covered basic Swing components, including JButton, JLabel, JTextField, and JPanel.

```
package javaswingoven;

import java.awt.BorderLayout;
import java.awt.Dimension;
import java.awt.Font;
import java.awt.GridLayout;
import java.awt.Image;
import java.awt.Toolkit;
import java.awt.event.MouseAdapter;
import java.awt.event.MouseEvent;
import javax.swing.ImageIcon;
import javax.swing.JButton;
import javax.swing.JFrame;
import javax.swing.JLabel;
import javax.swing.JPanel;
import javax.swing.JTextField;
import javax.swing.SwingConstants;
```

These are the Imports that are included in the Java Project.

```
// Oven Background (JPanel) Declarations.
add(OvenBackground, BorderLayout.CENTER);
OvenBackground.setBackground(new java.awt.Color(0, 0, 32));
OvenBackground.setBorder(new javax.swing.border.LineBorder(new java.awt.Color(255, 200, 0), 2, false));
OvenBackground.setLayout(new GridLayout(1,2,3,3));
OvenBackground.setVisible(true);

// Microwave (JPanel) Declarations.
OvenBackground.add(Microwave);
Microwave.setBackground(new java.awt.Color(255, 255, 255));
Microwave.setBorder(new javax.swing.border.LineBorder(new java.awt.Color(0, 0, 0), 2, false));
Microwave.setLayout(new GridLayout(1,1,0,0));
Microwave.setVisible(true);

Microwave.add(cooking, BorderLayout.NORTH);
cooking.setBackground(new java.awt.Color(255, 255, 255));
cooking.setBorder(new javax.swing.border.LineBorder(new java.awt.Color(0, 0, 0), 2, false));
cooking.setLayout(new GridLayout(1,1,0,0));
cooking.setVisible(true);


ImageIcon findPersonelPicture = new ImageIcon("src\\Resources\\Cookies.gif");
Image importPersonelPicture = findPersonelPicture.getImage();
//Image scalePersonelPicture = importPersonelPicture.getScaledInstance(cooking.getWidth(), cooking.getHeight(), Image.SCALE_SMOOTH);
ImageIcon scaledPersonelPicture = new ImageIcon(importPersonelPicture);
cooking.setIcon(scaledPersonelPicture);
```

This block of code is where we designed the background of the oven.

```
// JFrame Declaration
final int FrameWidth = 600;
final int FrameHeight = 400;

// JFrame Size.
setSize(FrameWidth, FrameHeight);
setMinimumSize(new java.awt.Dimension(FrameWidth, FrameHeight));

// JFrame Decoration.
setUndecorated(false);
setOpacity(1.0f);
setTitle("Panasonic : Microwave Oven - B121");
setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
setLocationRelativeTo(null);
pack();
setLayout(new BorderLayout());
```




BSCS 2B
2nd Semester

MIDTERM EXAMINATION SCHEDULE

10:00 AM - 11:30 AM
11:30 AM - 3:30 PM
3:30 PM - 5:30 PM
5:30 PM - 8:00 AM
8:00 AM - 9:30 AM
9:30 AM - 12:00 PM
12:00 PM - 1:30 PM
1:30 PM - 4:00 PM
4:00 PM - 5:30 PM

- People and Earth's Ecosystem (GE ELECT 4) - 12:00 PM - 1:30 PM
- Computer Programming 3 Lecture (COMPROG III) - 4:00 PM - 5:30 PM



PANASONIC : B121 Microwave Oven

1	2	3
4	5	6
7	8	9
ENTER	0	RESET

Note : Subjects from the Midterm and Final Term Examinations will require students to open their cameras during Examination Hours.

Students who fail to open their cameras as well as those who are disconnected from the exam and meeting will require students to instead have a "Special Exam" from the subject affected.

And here is the final output of our microwave oven.

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Grade Matrix:

Interface	30%
Components Use:	30%
Documentation	40%
	100%