OBJECT-ORIENTED PROGRAMMING (CSF3043)

K1

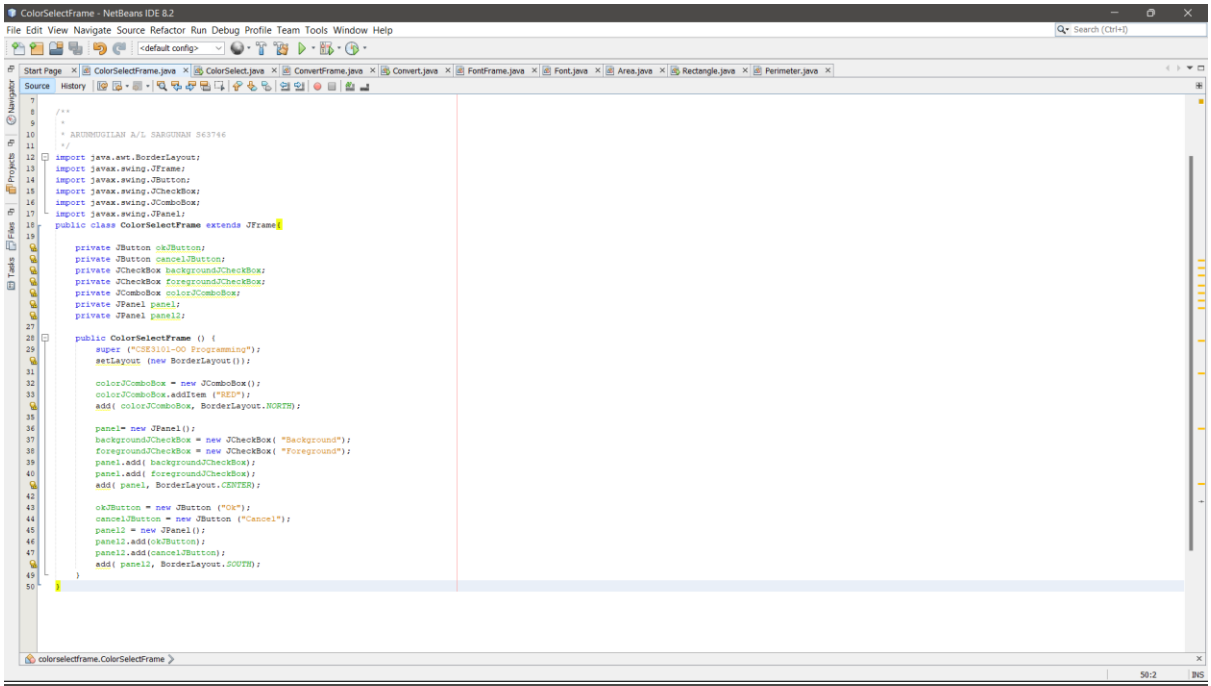
LECTURER: PN. NOOR HAFHIZAH

DEMONSTRATOR : MOHD ARIZAL SHAMSIL BIN MAT ARIFIN

NAME : ARUN MUGILAN A/L SARGUNAN

MATRICS NO.: S63746

LAB MODULE: 8


ColorSelectFrame - NetBeans IDE 8.2
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Start Page
ColorSelectFrame.java
ColorSelect.java
ConvertFrame.java
Convert.java
FontFrame.java
Font.java
Area.java
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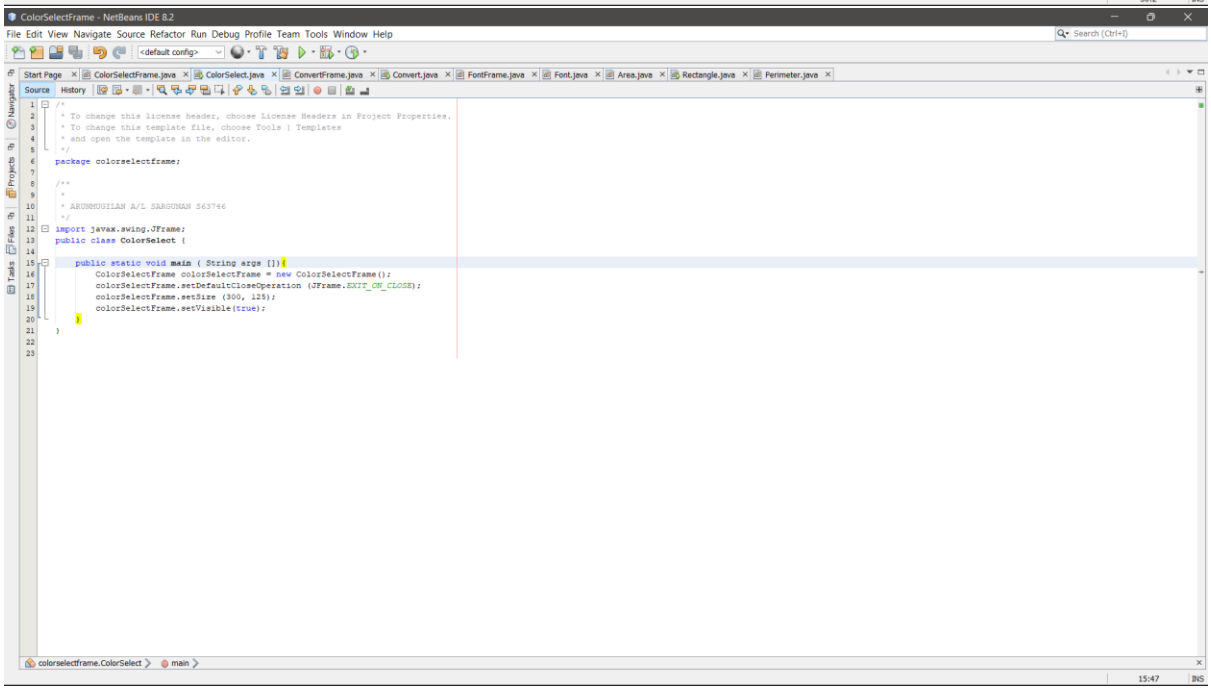
Source
History
/**
 *
 * ARUNMUGILAN A/L SARGUNAN S63746
 */
import java.awt.BorderLayout;
import javax.swing.JFrame;
import javax.swing.JButton;
import javax.swing.JCheckBox;
import javax.swing.JComboBox;
import javax.swing.JPanel;
public class ColorSelectFrame extends JFrame{
private JButton okJButton;
private JButton cancelJButton;
private JCheckBox backgroundJCheckBox;
private JCheckBox foregroundJCheckBox;
private JComboBox colorJComboBox;
private JPanel panel;
private JPanel panel2;
public ColorSelectFrame () {
super ("CSE3101-OO Programming");
setLayout (new BorderLayout());
colorJComboBox = new JComboBox();
colorJComboBox.addItem ("RED");
add(colorJComboBox, BorderLayout.NORTH);
panel= new JPanel();
backgroundJCheckBox = new JCheckBox("Background");
foregroundJCheckBox = new JCheckBox("Foreground");
panel.add(backgroundJCheckBox);
panel.add(foregroundJCheckBox);
add(panel, BorderLayout.CENTER);
okJButton = new JButton ("Ok");
cancelJButton = new JButton ("Cancel");
panel2 = new JPanel();
panel2.add(okJButton);
panel2.add(cancelJButton);
add(panel2, BorderLayout.SOUTH);
}
}
colorselectframe.ColorSelectFrame
50:2
INS


ColorSelectFrame - NetBeans IDE 8.2
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ColorSelectFrame.java
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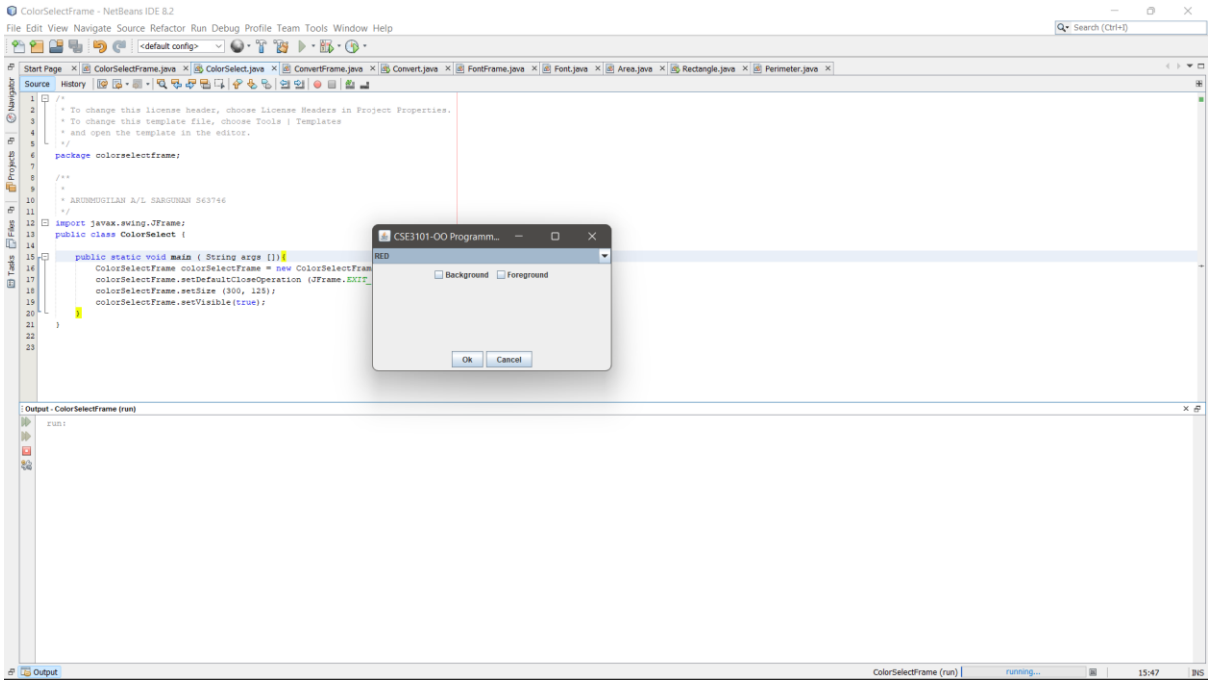
History
/*
 * To change this license header, choose License Headers in Project Properties.
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */
package colorselectframe;
/**
 *
 * ARUNMUGILAN A/L SARGUNAN S63746
 */
import javax.swing.JFrame;
public class ColorSelect {
public static void main (String args []){
ColorSelectFrame colorSelectFrame = new ColorSelectFrame();
colorSelectFrame.setDefaultCloseOperation (JFrame.EXIT_ON_CLOSE);
colorSelectFrame.setSize (300, 125);
colorSelectFrame.setVisible(true);
}
}
colorselectframe.ColorSelect
main
15:47
INS


ColorSelectFrame - NetBeans IDE 8.2
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Search (Ctrl+I)
Start Page
ColorSelectFrame.java
ColorSelect.java
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History
/*
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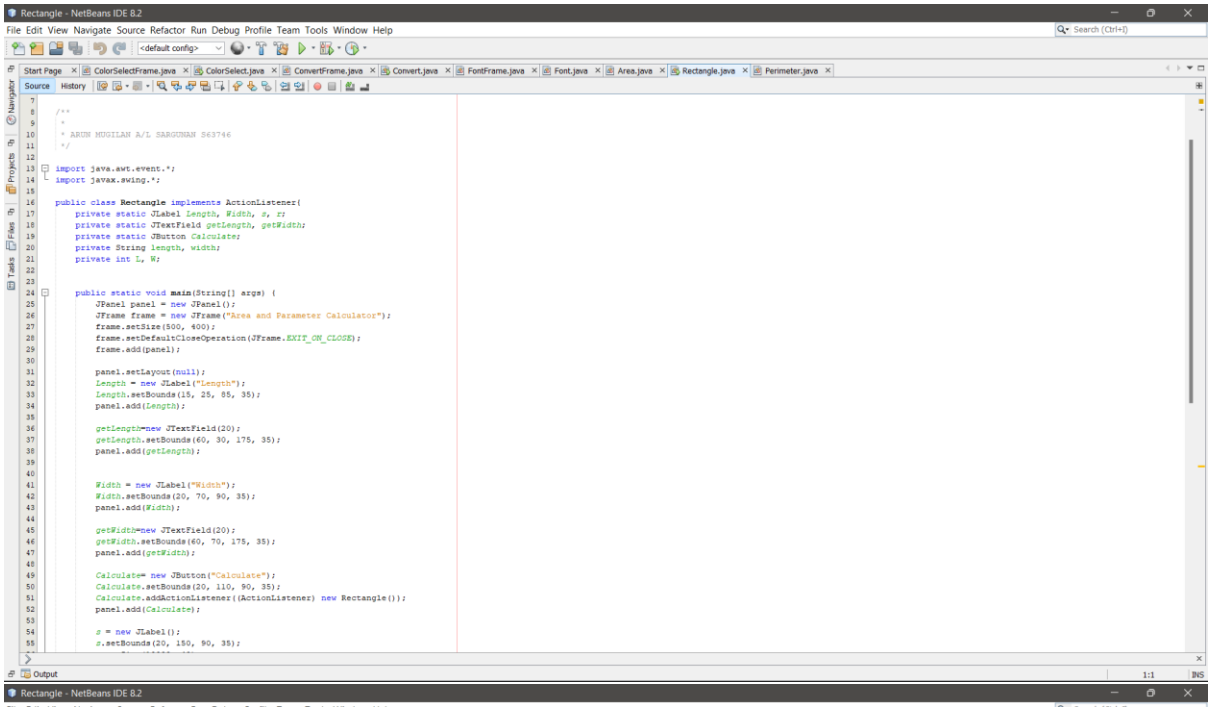
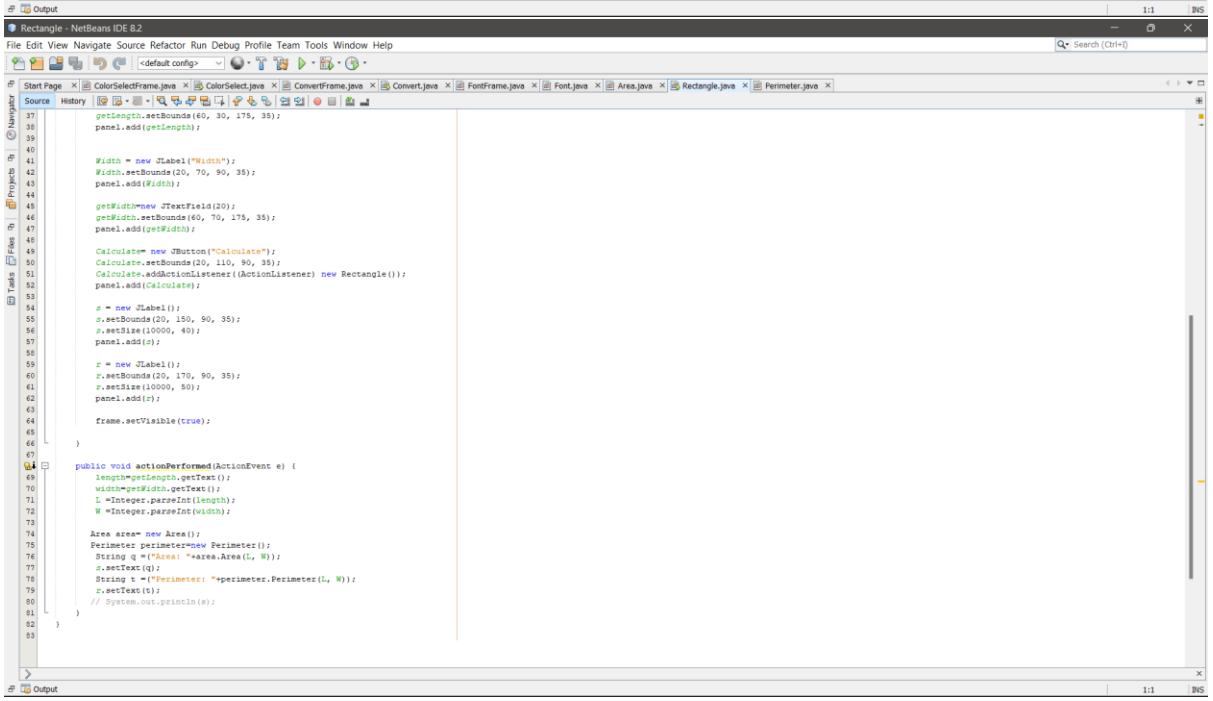
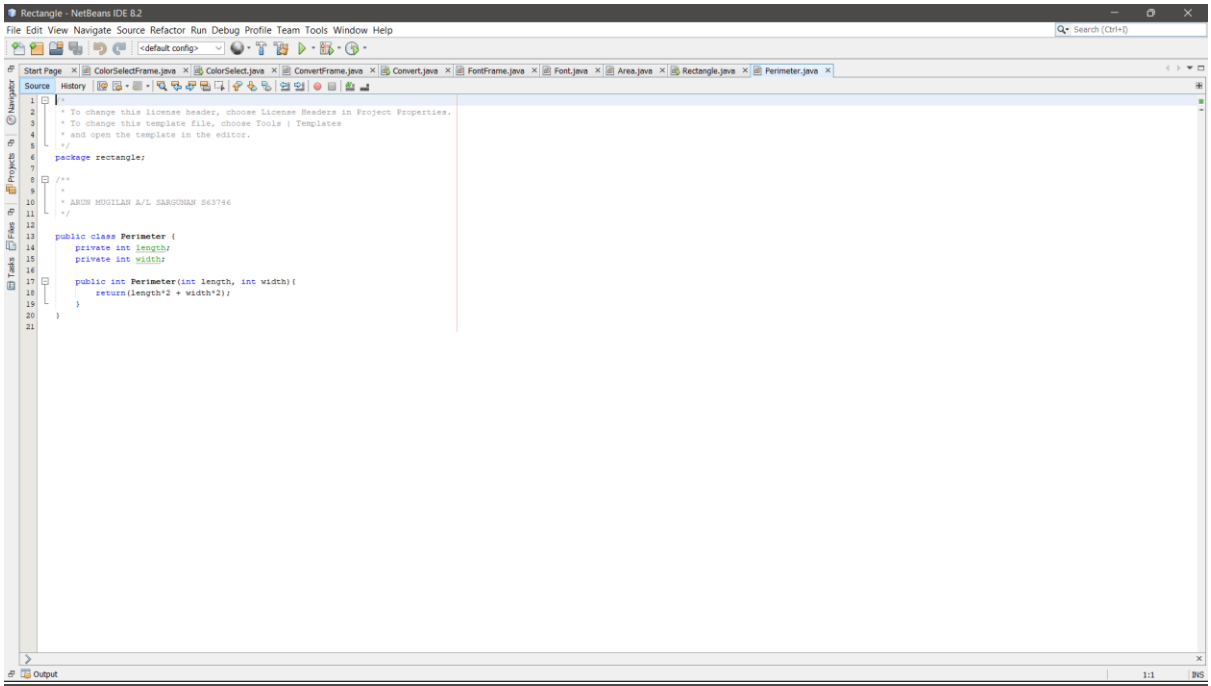
*/
package colorselectframe;
/**
*
* ARUNMUGILAN A/L SARGUNAN S63746
*/
import javax.swing.JFrame;
public class ColorSelect {
public static void main (String args []){
ColorSelectFrame colorSelectFrame = new ColorSelectFram
colorSelectFrame.setDefaultCloseOperation (JFrame.EXIT_
colorSelectFrame.setSize (300, 125);
colorSelectFrame.setVisible(true);
}
}
CSE3101-OO Programm...
RED
Background
Foreground
Ok
Cancel
Output - ColorSelectFrame (run)
run:
Output
ColorSelectFrame (run)
running...
15:47
INS




```
/**
 *
 * ARUN MUGILAN A/L SARGUNAN S63746
 */

import java.awt.event.*;
import javax.swing.*;

public class Rectangle implements ActionListener{
    private static JLabel Length, Width, s, r;
    private static JTextField getLength, getWidth;
    private static JButton Calculate;
    private String length, width;
    private int L, W;


    public static void main(String[] args) {
        JPanel panel = new JPanel();
        JFrame frame = new JFrame("Area and Parameter Calculator");
        frame.setSize(500, 400);
        frame.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
        frame.add(panel);

        panel.setLayout(null);
        Length = new JLabel("Length");
        Length.setBounds(15, 25, 85, 35);
        panel.add(Length);

        getLength=new JTextField(20);
        getLength.setBounds(60, 30, 175, 35);
        panel.add(getLength);


        Width = new JLabel("Width");
        Width.setBounds(20, 70, 90, 35);
        panel.add(Width);

        getWidth=new JTextField(20);
        getWidth.setBounds(60, 70, 175, 35);
        panel.add(getWidth);

        Calculate= new JButton("Calculate");
        Calculate.setBounds(20, 110, 90, 35);
        Calculate.addActionListener((ActionListener) new Rectangle());
        panel.add(Calculate);

        s = new JLabel();
        s.setBounds(20, 150, 90, 35);
```




```
        getLength.setBounds(60, 30, 175, 35);
        panel.add(getLength);


        Width = new JLabel("Width");
        Width.setBounds(20, 70, 90, 35);
        panel.add(Width);

        getWidth=new JTextField(20);
        getWidth.setBounds(60, 70, 175, 35);
        panel.add(getWidth);

        Calculate= new JButton("Calculate");
        Calculate.setBounds(20, 110, 90, 35);
        Calculate.addActionListener((ActionListener) new Rectangle());
        panel.add(Calculate);

        s = new JLabel();
        s.setBounds(20, 150, 90, 35);
        s.setSize(10000, 40);
        panel.add(s);

        r = new JLabel();
        r.setBounds(20, 170, 90, 35);
        r.setSize(10000, 50);
        panel.add(r);

        frame.setVisible(true);

    }

    public void actionPerformed(ActionEvent e) {
        length=getLength.getText();
        width=getWidth.getText();
        L =Integer.parseInt(length);
        W =Integer.parseInt(width);

       Area area= new Area();
       Perimeter perimeter=new Perimeter();
        String q ="Area: "+area.Area(L, W));
        s.setText(q);
        String t ="Perimeter: "+perimeter.Perimeter(L, W));
        r.setText(t);
        // System.out.println(s);
    }
}
```


Rectangle - NetBeans IDE 8.2
File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help
Search (Ctrl+I)
<default config>
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Source
History
/*
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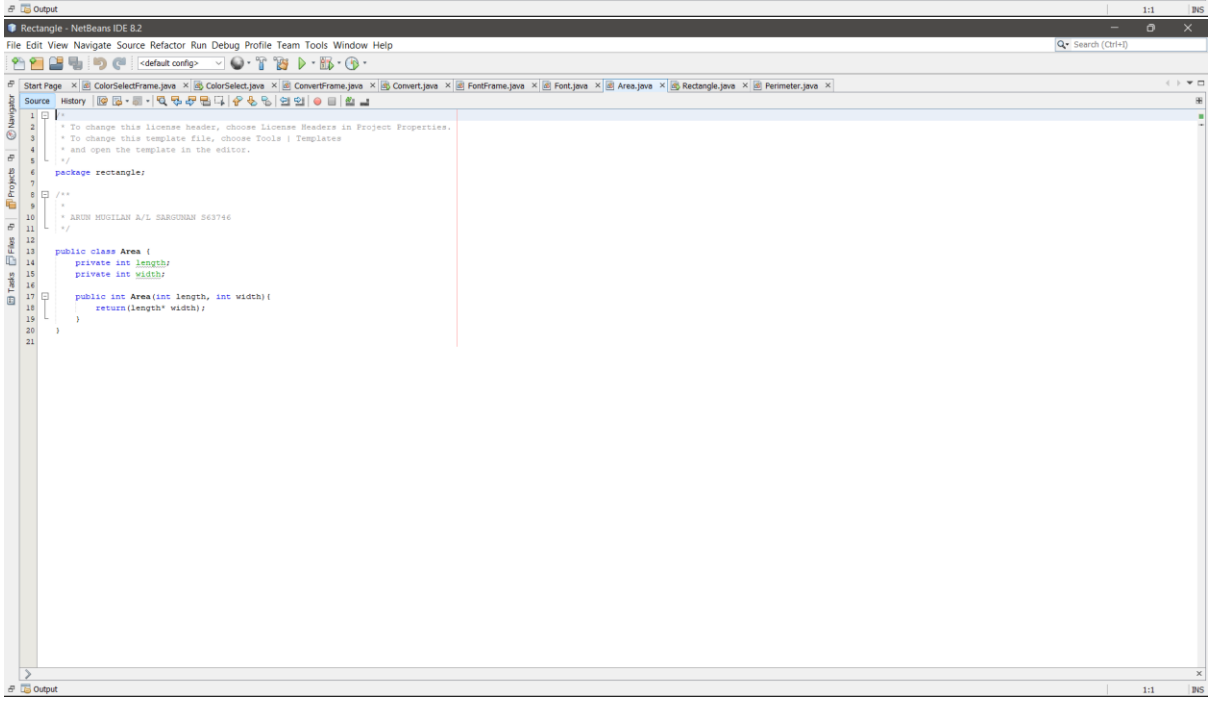
*/
package rectangle;
/**
*
* ARUN MUGILAN A/L SARGUNAN S63746
*/
public class Perimeter {
private int length;
private int width;
public int Perimeter(int length, int width){
return(length*2 + width*2);
}
}
Output
1:1
INS


Rectangle - NetBeans IDE 8.2
File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help
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ColorSelectFrame.java
ColorSelect.java
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History
/*
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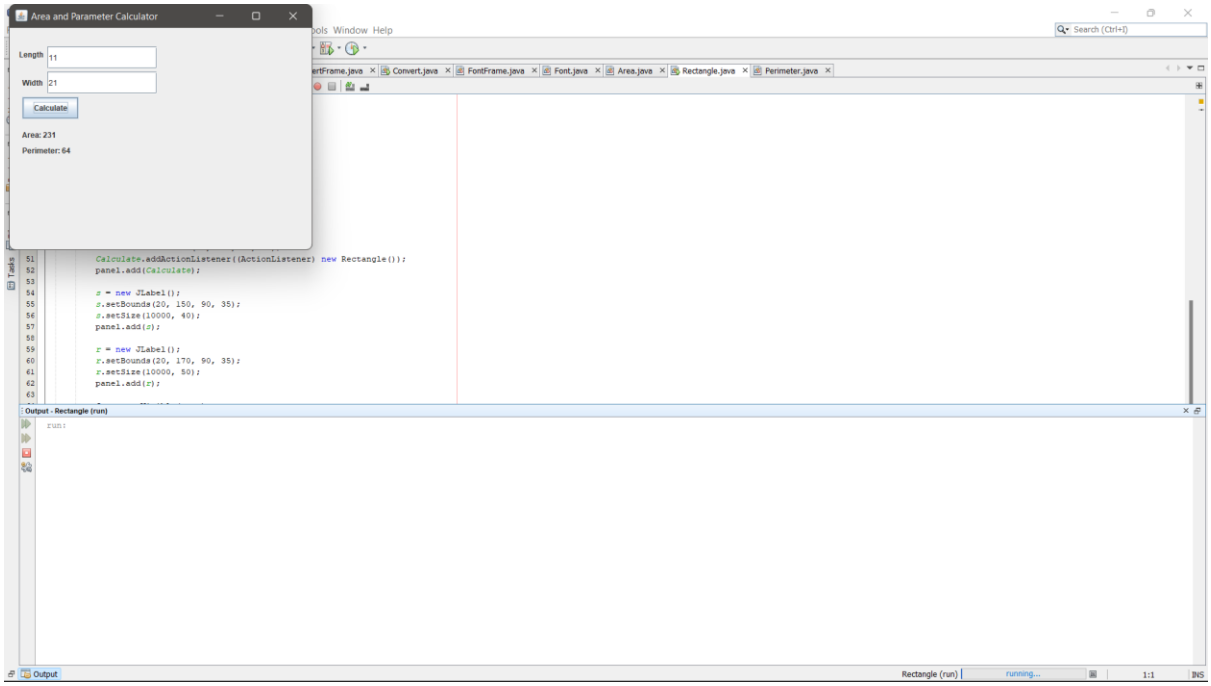
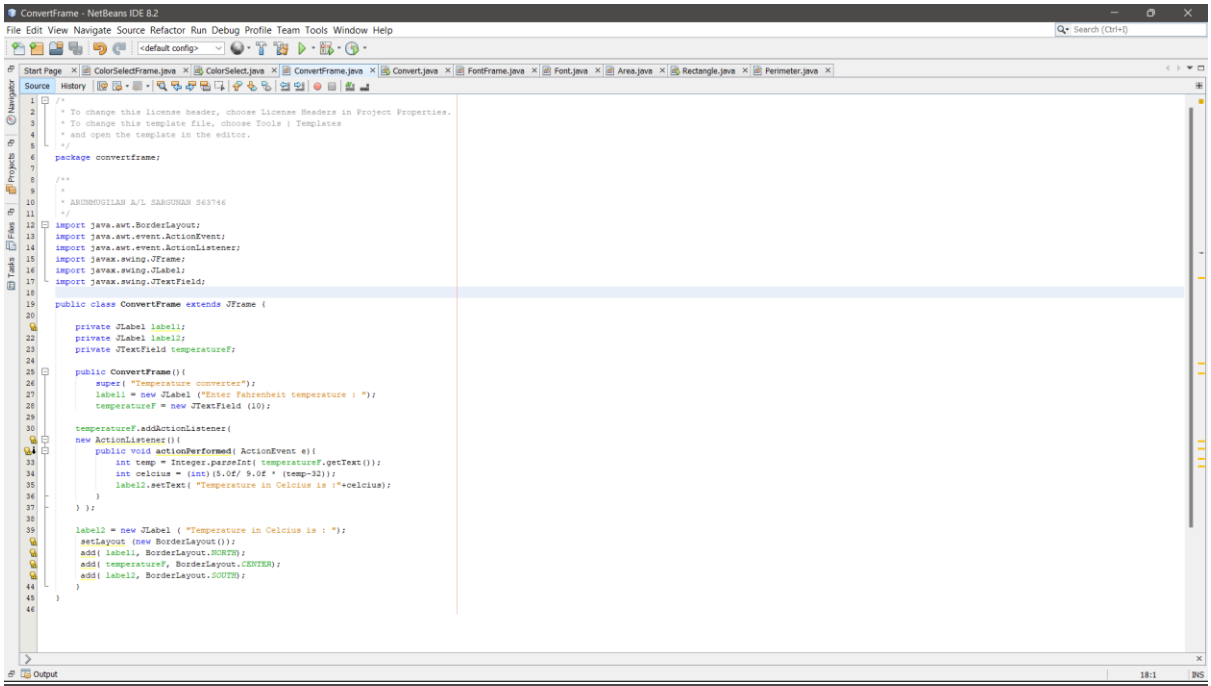
*/
package rectangle;
/**
*
* ARUN MUGILAN A/L SARGUNAN S63746
*/
public class Area {
private int length;
private int width;
public int Area(int length, int width){
return(length* width);
}
}
Output
1:1
INS


Area and Parameter Calculator
Length
11
Width
21
Calculate
Area: 231
Perimeter: 64
Convert.java
FontFrame.java
Font.java
Area.java
Rectangle.java
Perimeter.java
Calculate.addActionListener((ActionListener) new Rectangle());
panel.add(Calculate);
s = new JLabel();
s.setBounds(20, 150, 90, 35);
s.setSize(10000, 40);
panel.add(s);
r = new JLabel();
r.setBounds(20, 170, 90, 35);
r.setSize(10000, 50);
panel.add(r);
Output - Rectangle (run)
run:
Output
Rectangle (run)
running...
1:1
INS


ConvertFrame - NetBeans IDE 8.2
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Start Page
ColorSelectFrame.java
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Source
History
/*
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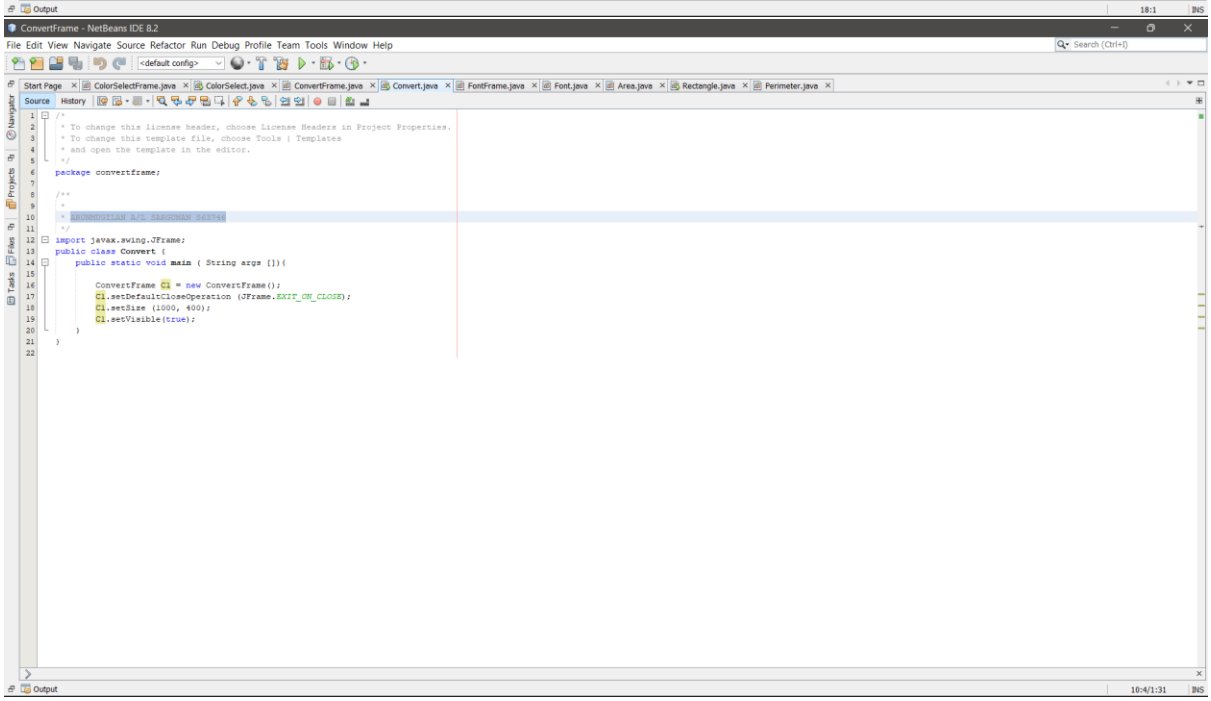
*/
package convertframe;
/**
*
* ARUNMUGILAN A/L SARGUNAN S63746
*/
import java.awt.BorderLayout;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;
import javax.swing.JFrame;
import javax.swing.JLabel;
import javax.swing.JTextField;
public class ConvertFrame extends JFrame {
private JLabel label1;
private JLabel label2;
private JTextField temperatureF;
public ConvertFrame(){
super("Temperature converter");
label1 = new JLabel ("Enter Fahrenheit temperature : ");
temperatureF = new JTextField (10);
temperatureF.addActionListener(
new ActionListener(){
public void actionPerformed(ActionEvent e){
int temp = Integer.parseInt(temperatureF.getText());
int celcius = (int)(5.0f/ 9.0f * (temp-32));
label2.setText("Temperature in Celcius is :"+celcius);
}
});
label2 = new JLabel ("Temperature in Celcius is : ");
setLayout (new BorderLayout());
add(label1, BorderLayout.NORTH);
add(temperatureF, BorderLayout.CENTER);
add(label2, BorderLayout.SOUTH);
}
}
Output
18:1
INS


ConvertFrame - NetBeans IDE 8.2
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Perimeter.java
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History
/*
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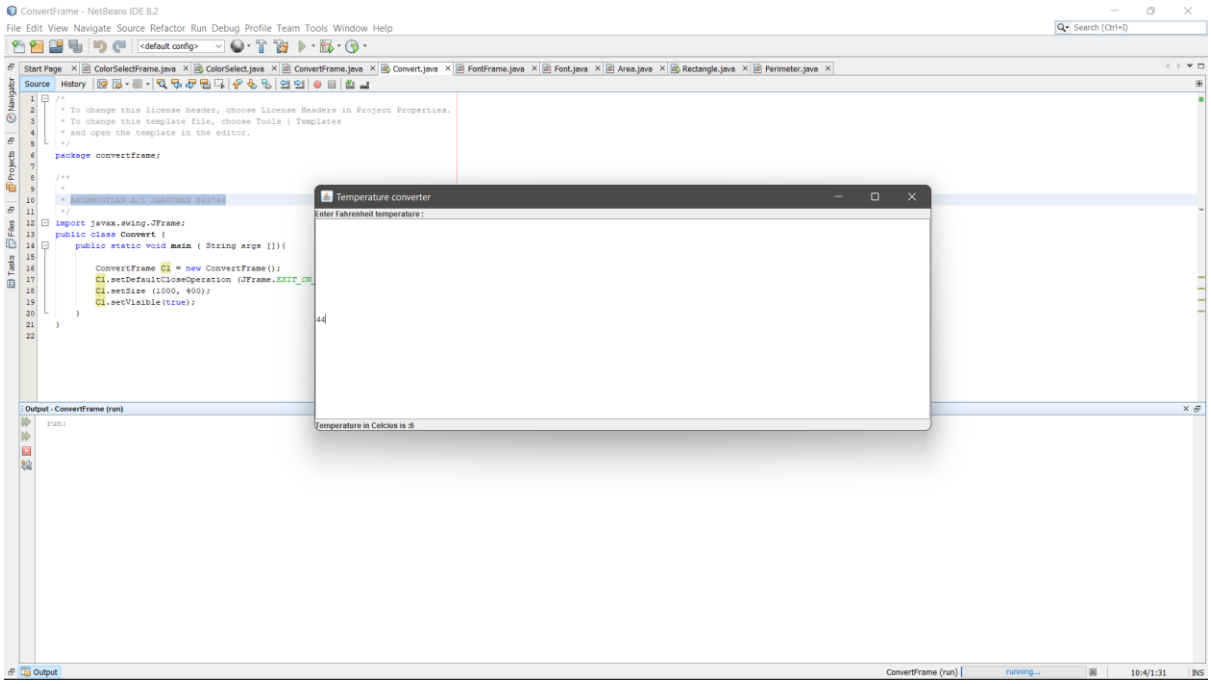
*/
package convertframe;
/**
*
* ARUNMUGILAN A/L SARGUNAN S63746
*/
import javax.swing.JFrame;
public class Convert {
public static void main (String args []){
ConvertFrame C1 = new ConvertFrame();
C1.setDefaultCloseOperation (JFrame.EXIT_ON_CLOSE);
C1.setSize (1000, 400);
C1.setVisible(true);
}
}
Output
10:4/1:31
INS


ConvertFrame - NetBeans IDE 8.2
File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help
Start Page
ColorSelectFrame.java
ColorSelect.java
ConvertFrame.java
Convert.java
FontFrame.java
Font.java
Area.java
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Source
History
/*
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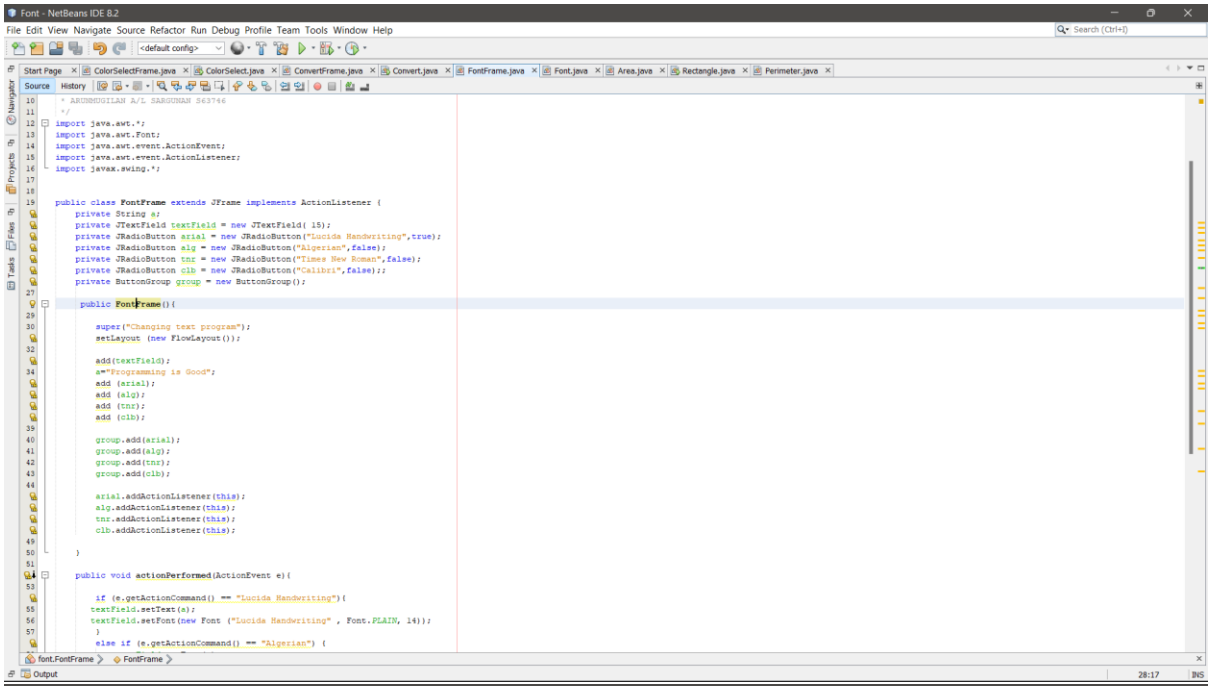
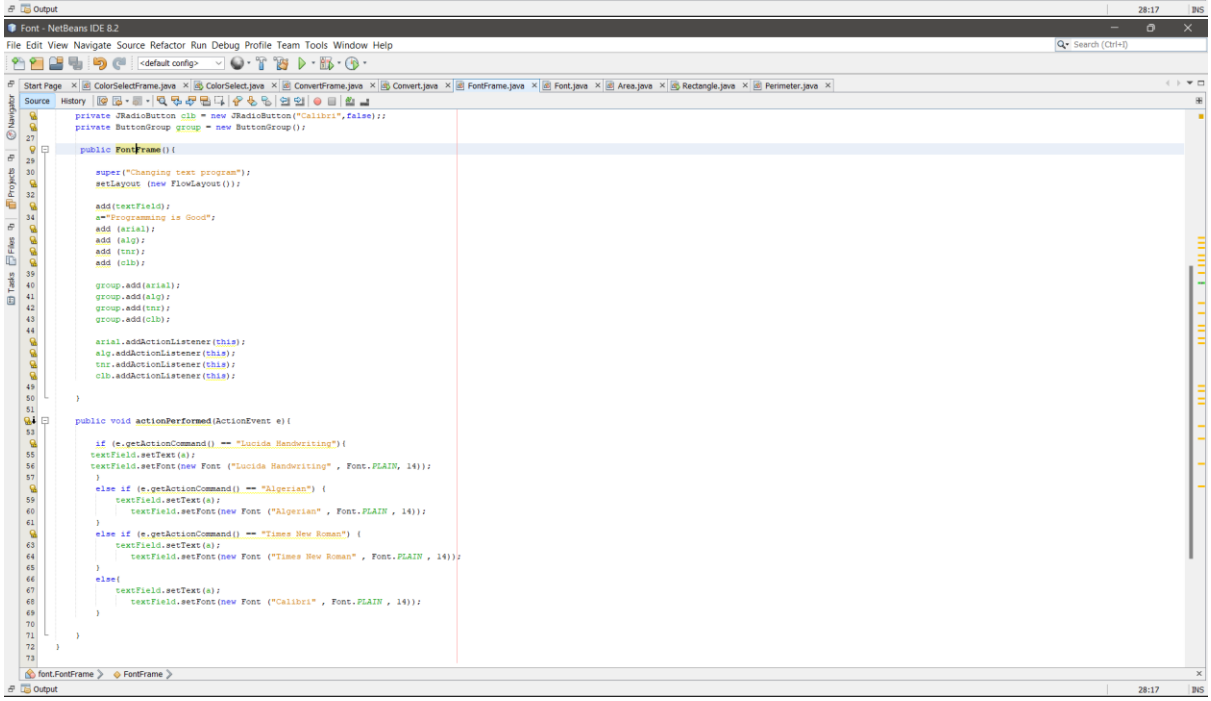
*/
package convertframe;
/**
*
* ARUNMUGILAN A/L SARGUNAN S63746
*/
import javax.swing.JFrame;
public class Convert {
public static void main (String args []){
ConvertFrame Ci = new ConvertFrame();
Ci.setDefaultCloseOperation (JFrame.EXIT_ON
Ci.setSize (1000, 400);
Ci.setVisible(true);
}
}
Temperature converter
Enter Fahrenheit temperature :
44
Temperature in Celcius is :6
Output - ConvertFrame (run)
run:
Output
ConvertFrame (run)
running...
10:4/1:31
INS


Font - NetBeans IDE 8.2
File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help
Start Page
ColorSelectFrame.java
ColorSelect.java
ConvertFrame.java
Convert.java
FontFrame.java
Font.java
Area.java
Rectangle.java
Perimeter.java
Source
History
* ARUNMUGILAN A/L SARGUNAN S63746
*/
import java.awt.*;
import java.awt.Font;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;
import javax.swing.*;
public class FontFrame extends JFrame implements ActionListener {
private String a;
private JTextField textField = new JTextField(15);
private JRadioButton arial = new JRadioButton("Lucida Handwriting",true);
private JRadioButton alg = new JRadioButton("Algerian",false);
private JRadioButton tnr = new JRadioButton("Times New Roman",false);
private JRadioButton clb = new JRadioButton("Calibri",false);;
private ButtonGroup group = new ButtonGroup();
public FontFrame(){
super("Changing text program");
setLayout (new FlowLayout());
add(textField);
a="Programming is Good";
add (arial);
add (alg);
add (tnr);
add (clb);
group.add(arial);
group.add(alg);
group.add(tnr);
group.add(clb);
arial.addActionListener(this);
alg.addActionListener(this);
tnr.addActionListener(this);
clb.addActionListener(this);
}
public void actionPerformed(ActionEvent e){
if (e.getActionCommand() == "Lucida Handwriting"){
textField.setText(a);
textField.setFont(new Font ("Lucida Handwriting" , Font.PLAIN, 14));
}
else if (e.getActionCommand() == "Algerian") {
font.FontFrame
FontFrame
Output
28:17
INS


Font - NetBeans IDE 8.2
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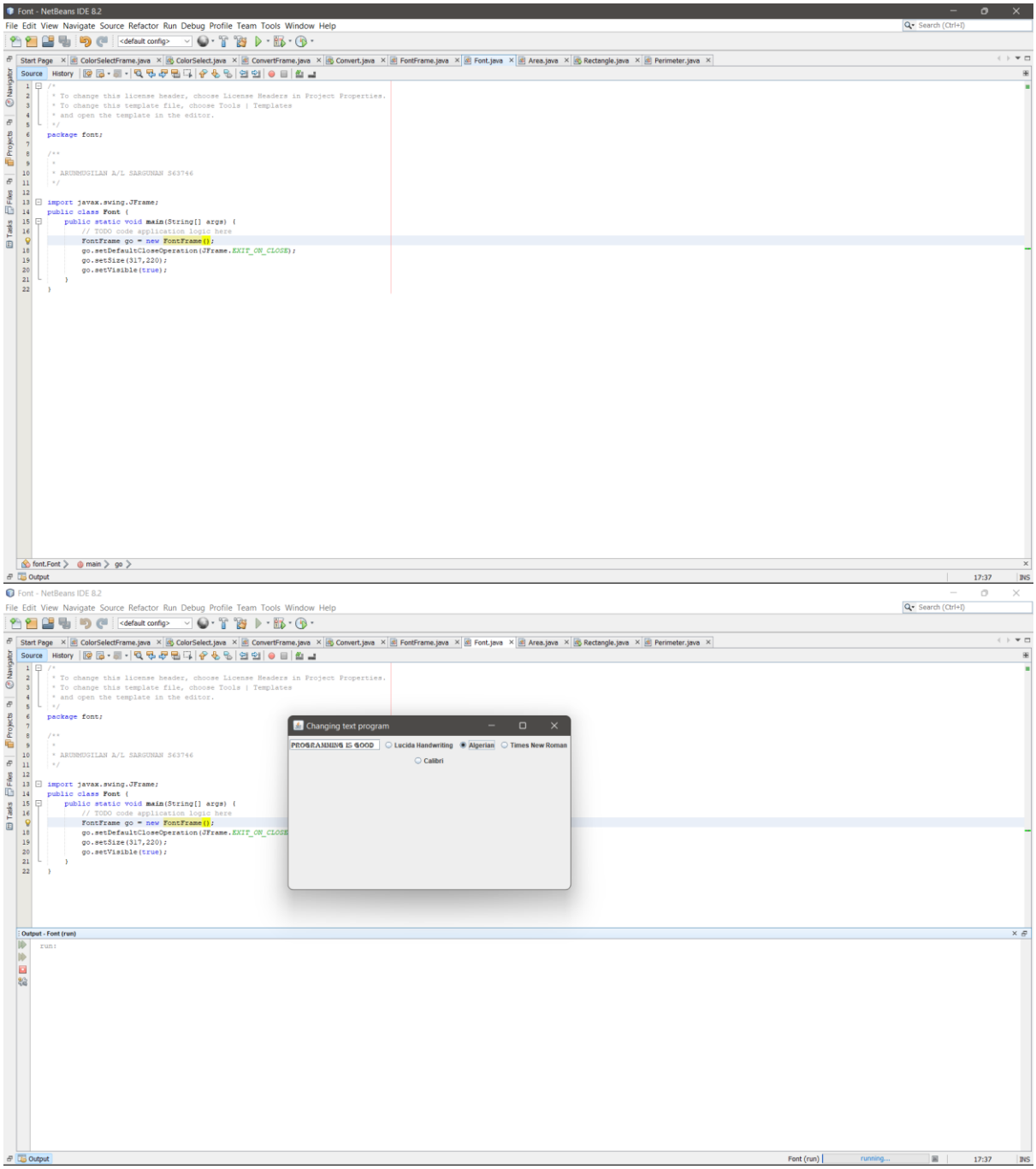
ColorSelectFrame.java
ColorSelect.java
ConvertFrame.java
Convert.java
FontFrame.java
Font.java
Area.java
Rectangle.java
Perimeter.java
Source
History
private JRadioButton clb = new JRadioButton("Calibri",false);;
private ButtonGroup group = new ButtonGroup();
public FontFrame(){
super("Changing text program");
setLayout (new FlowLayout());
add(textField);
a="Programming is Good";
add (arial);
add (alg);
add (tnr);
add (clb);
group.add(arial);
group.add(alg);
group.add(tnr);
group.add(clb);
arial.addActionListener(this);
alg.addActionListener(this);
tnr.addActionListener(this);
clb.addActionListener(this);
}
public void actionPerformed(ActionEvent e){
if (e.getActionCommand() == "Lucida Handwriting"){
textField.setText(a);
textField.setFont(new Font ("Lucida Handwriting" , Font.PLAIN, 14));
}
else if (e.getActionCommand() == "Algerian") {
textField.setText(a);
textField.setFont(new Font ("Algerian" , Font.PLAIN , 14));
}
else if (e.getActionCommand() == "Times New Roman") {
textField.setText(a);
textField.setFont(new Font ("Times New Roman" , Font.PLAIN , 14));
}
else{
textField.setText(a);
textField.setFont(new Font ("Calibri" , Font.PLAIN , 14));
}
}
}
font.FontFrame
FontFrame
Output
28:17
INS


Font - NetBeans IDE 8.2
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/*
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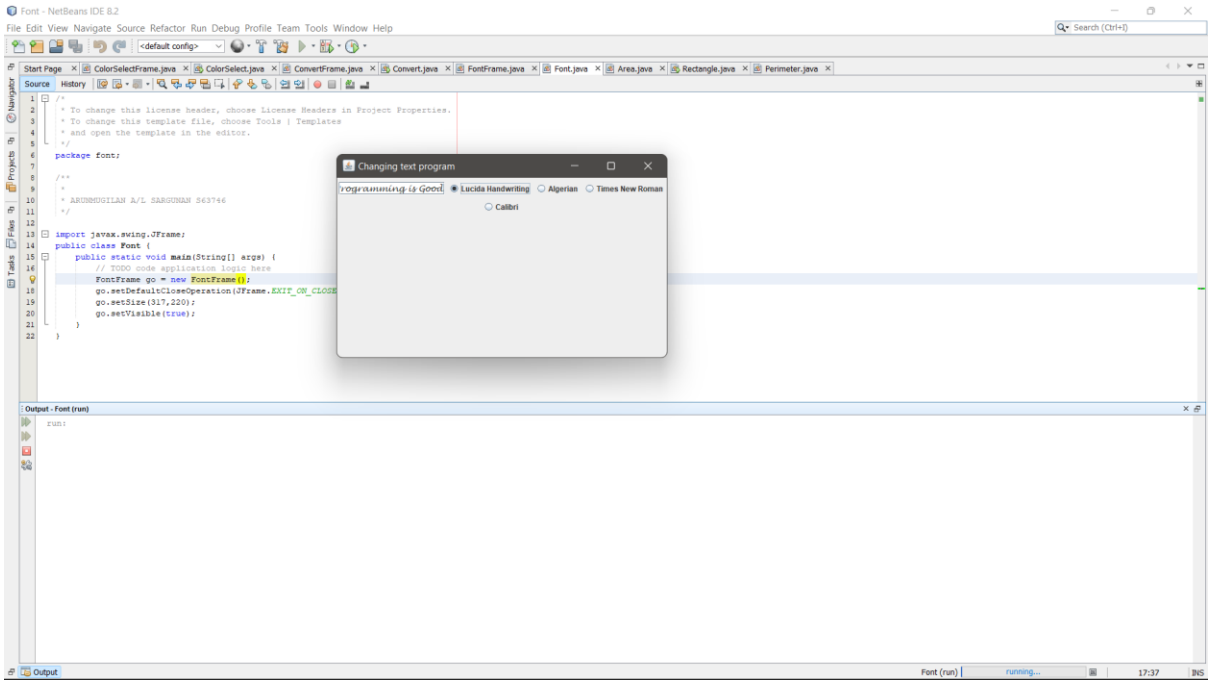
*/
package font;
/**
*
* ARUNMUGILAN A/L SARGUNAN S63746
*/
import javax.swing.JFrame;
public class Font {
public static void main(String[] args) {
// TODO code application logic here
FontFrame go = new FontFrame();
go.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
go.setSize(317,220);
go.setVisible(true);
}
}
font.Font
main
go
Output
17:37
INS

Font - NetBeans IDE 8.2
File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help
Changing text program
PROGRAMMING IS GOOD
Lucida Handwriting
Algerian
Times New Roman
Calibri
Output - Font (run)
run:
Output
Font (run)
running...
17:37
INS


Font - NetBeans IDE 8.2
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/*
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*/
package font;
/**
*
* ARUNMUGILAN A/L SARGUNAN S63746
*/
import javax.swing.JFrame;
public class Font {
public static void main(String[] args) {
// TODO code application logic here
FontFrame go = new FontFrame();
go.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE
go.setSize(317,220);
go.setVisible(true);
}
}
Changing text program
rogramming is Good
Lucida Handwriting
Algerian
Times New Roman
Calibri
Output - Font (run)
run:
Output
Font (run)
running...
17:37
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