**BMI Calculator**

**OOP Semester Project**

**19SW01**

**Source Code:**

import java.awt.EventQueue;

import javax.swing.JFrame;

import javax.swing.JLayeredPane;

import java.awt.CardLayout;

import javax.swing.JPanel;

import java.awt.Color;

import javax.swing.JButton;

import java.awt.Font;

import javax.swing.JLabel;

import javax.swing.JTextField;

import javax.swing.ImageIcon;

import java.awt.event.ActionListener;

import java.awt.event.ActionEvent;

public class Project\_OOP\_19sw01 {

private JFrame frame;

private JTextField textField;

private JTextField textField\_1;

private JTextField textField\_2;

/\*\*

\* Launch the application.

\*/

public static void main(String[] args) {

EventQueue.invokeLater(new Runnable() {

public void run() {

try {

Project\_OOP\_19sw01 window = new Project\_OOP\_19sw01();

window.frame.setVisible(true);

} catch (Exception e) {

e.printStackTrace();

}

}

});

}

/\*\*

\* Create the application.

\*/

public Project\_OOP\_19sw01() {

initialize();

}

/\*\*

\* Initialize the contents of the frame.

\*/

private void initialize() {

frame = new JFrame();

frame.setBounds(100, 100, 850, 460);

frame.setDefaultCloseOperation(JFrame.EXIT\_ON\_CLOSE);

frame.setUndecorated(true);

frame.getContentPane().setLayout(null);

frame.getContentPane().setBackground(new Color(0, 0, 0));

frame.setBackground(new Color(0, 0, 0));

JLayeredPane layeredPane = new JLayeredPane();

layeredPane.setBounds(276, 30, 574, 430);

frame.getContentPane().add(layeredPane);

layeredPane.setLayout(new CardLayout(0, 0));

JPanel panel\_1 = new JPanel();

layeredPane.add(panel\_1, "name\_8139110628260");

panel\_1.setBackground(new Color(255, 255, 255));

panel\_1.setLayout(null);

JPanel panel\_5 = new JPanel();

panel\_5.setBounds(0, 43, 574, 94);

panel\_1.add(panel\_5);

panel\_5.setBackground(new Color(102, 204, 153));

panel\_5.setLayout(null);

JLabel lblNewLabel\_4 = new JLabel("BMI Calculator ");

lblNewLabel\_4.setForeground(new Color(255, 255, 255));

lblNewLabel\_4.setFont(new Font("Segoe UI Semibold", Font.BOLD, 45));

lblNewLabel\_4.setBounds(153, 11, 378, 72);

panel\_5.add(lblNewLabel\_4);

JLabel lblNewLabel\_7 = new JLabel("");

lblNewLabel\_7.setIcon(new ImageIcon("C:\\Users\\Afsa\\Desktop\\project\\BMI-5-760x434.png"));

lblNewLabel\_7.setBounds(88, 165, 427, 254);

panel\_1.add(lblNewLabel\_7);

//BMI-5-760x434.png

JPanel panel\_2 = new JPanel();

layeredPane.add(panel\_2, "name\_8142005786157");

panel\_2.setLayout(null);

panel\_2.setBackground(new Color(255, 255, 255));

JLabel lblNewLabel = new JLabel("Height(m)");

lblNewLabel.setFont(new Font("Agency FB", Font.BOLD, 25));

lblNewLabel.setBounds(65, 66, 153, 39);

panel\_2.add(lblNewLabel);

JLabel lblWeightkg = new JLabel("Weight(kg)");

lblWeightkg.setFont(new Font("Agency FB", Font.BOLD, 25));

lblWeightkg.setBounds(65, 131, 153, 39);

panel\_2.add(lblWeightkg);

JLabel lblBmi = new JLabel("BMI");

lblBmi.setFont(new Font("Arial Black", Font.BOLD, 25));

lblBmi.setBounds(39, 254, 153, 39);

panel\_2.add(lblBmi);

textField = new JTextField();

textField.setBounds(183, 66, 252, 35);

panel\_2.add(textField);

textField.setColumns(10);

textField\_1 = new JTextField();

textField\_1.setColumns(10);

textField\_1.setBounds(183, 131, 252, 35);

panel\_2.add(textField\_1);

JLabel lblNewLabel\_1 = new JLabel("");

lblNewLabel\_1.setBounds(314, 254, 153, 39);

panel\_2.add(lblNewLabel\_1);

textField\_2 = new JTextField();

textField\_2.setBounds(126, 254, 92, 39);

panel\_2.add(textField\_2);

textField\_2.setColumns(10);

JButton btnNewButton = new JButton("Calculate");

btnNewButton.setFont(new Font("Agency FB", Font.BOLD, 20));

btnNewButton.setForeground(new Color(0, 0, 0));

btnNewButton.addActionListener(new ActionListener() {

public void actionPerformed(ActionEvent e) {

double h = Double.parseDouble(textField.getText());

double w = Double.parseDouble(textField\_1.getText());

double bmi = w/(h\*h);

String cal = String.format("%.2f", bmi);

textField\_2.setText(cal);

if(bmi<=18.5) {

textField\_2.setOpaque(true);

textField\_2.setBackground(Color.blue);

lblNewLabel\_1 .setForeground(Color.blue);

lblNewLabel\_1 .setText("Under Weight");

}

else if(bmi<=24.5) {

textField\_2.setOpaque(true);

textField\_2.setBackground(Color.green);

lblNewLabel\_1 .setForeground(Color.green);

lblNewLabel\_1 .setText("Normal Weight");

}

else if(bmi<=29.5) {

textField\_2.setOpaque(true);

textField\_2.setBackground(Color.orange);

lblNewLabel\_1 .setForeground(Color.orange);

lblNewLabel\_1 .setText("Over Weight");

}

else if(bmi>=30) {

textField\_2.setOpaque(true);

textField\_2.setBackground(Color.red);

lblNewLabel\_1 .setForeground(Color.red);

lblNewLabel\_1 .setText("Obese");

}

}

});

btnNewButton.setBounds(84, 326, 108, 35);

panel\_2.add(btnNewButton);

JButton btnNewButton\_2 = new JButton("Back");

btnNewButton\_2.addActionListener(new ActionListener() {

public void actionPerformed(ActionEvent e) {

layeredPane.removeAll();

layeredPane.add(panel\_1);

layeredPane.repaint();

layeredPane.validate();

}

});

btnNewButton\_2.setFont(new Font("Agency FB", Font.BOLD, 20));

btnNewButton\_2.setBounds(465, 373, 89, 35);

panel\_2.add(btnNewButton\_2);

JButton btnReset = new JButton("Reset");

btnReset.setFont(new Font("Agency FB", Font.BOLD, 20));

btnReset.addActionListener(new ActionListener() {

public void actionPerformed(ActionEvent e) {

textField.setText("");

textField\_1.setText("");

textField\_2.setText("");

textField\_2.setOpaque(true);

textField\_2.setBackground(null);

lblNewLabel\_1.setText("");

}

});

btnReset.setBounds(327, 326, 108, 35);

panel\_2.add(btnReset);

JPanel panel\_3 = new JPanel();

layeredPane.add(panel\_3, "name\_1180642204775");

panel\_3.setBackground(new Color(255, 255, 255));

JButton btnNewButton\_2\_1 = new JButton("Back");

btnNewButton\_2\_1.setBounds(452, 373, 89, 35);

btnNewButton\_2\_1.addActionListener(new ActionListener() {

public void actionPerformed(ActionEvent e) {

layeredPane.removeAll();

layeredPane.add(panel\_1);

layeredPane.repaint();

layeredPane.validate();

}

});

panel\_3.setLayout(null);

btnNewButton\_2\_1.setFont(new Font("Agency FB", Font.BOLD, 20));

panel\_3.add(btnNewButton\_2\_1);

JLabel lblNewLabel\_3 = new JLabel("");

lblNewLabel\_3.setIcon(new ImageIcon("C:\\Users\\Afsa\\Desktop\\project\\P8.PNG"));

lblNewLabel\_3.setBounds(73, 11, 475, 313);

panel\_3.add(lblNewLabel\_3);

JPanel panel\_4 = new JPanel();

layeredPane.add(panel\_4, "name\_1981886222776");

panel\_4.setBackground(new Color(255, 255, 255));

JButton btnNewButton\_2\_2 = new JButton("Back");

btnNewButton\_2\_2.setBounds(465, 373, 89, 35);

btnNewButton\_2\_2.addActionListener(new ActionListener() {

public void actionPerformed(ActionEvent e) {

layeredPane.removeAll();

layeredPane.add(panel\_1);

layeredPane.repaint();

layeredPane.validate();

}

});

panel\_4.setLayout(null);

btnNewButton\_2\_2.setFont(new Font("Agency FB", Font.BOLD, 20));

panel\_4.add(btnNewButton\_2\_2);

JLabel lblNewLabel\_2 = new JLabel("");

lblNewLabel\_2.setIcon(new ImageIcon("C:\\Users\\Afsa\\Desktop\\project\\p7.PNG"));

lblNewLabel\_2.setBounds(87, 62, 521, 338);

panel\_4.add(lblNewLabel\_2);

JLabel lblNewLabel\_5 = new JLabel("BMI Chart");

lblNewLabel\_5.setFont(new Font("Segoe UI", Font.BOLD, 40));

lblNewLabel\_5.setBounds(26, 29, 446, 71);

panel\_4.add(lblNewLabel\_5);

JPanel panel\_6 = new JPanel();

panel\_6.setForeground(new Color(255, 255, 255));

layeredPane.add(panel\_6, "name\_2008157985867");

panel\_6.setBackground(new Color(255, 255, 255));

panel\_6.setLayout(null);

JLabel lblNewLabel\_8 = new JLabel("");

lblNewLabel\_8.setIcon(new ImageIcon("C:\\Users\\Afsa\\Desktop\\project\\p12.PNG"));

lblNewLabel\_8.setBounds(54, 41, 473, 329);

panel\_6.add(lblNewLabel\_8);

JButton btnNewButton\_2\_3 = new JButton("Back");

btnNewButton\_2\_3.addActionListener(new ActionListener() {

public void actionPerformed(ActionEvent e) {

layeredPane.removeAll();

layeredPane.add(panel\_1);

layeredPane.repaint();

layeredPane.validate();

}

});

btnNewButton\_2\_3.setFont(new Font("Agency FB", Font.BOLD, 20));

btnNewButton\_2\_3.setBounds(454, 371, 89, 35);

panel\_6.add(btnNewButton\_2\_3);

JPanel panel = new JPanel();

panel.setBounds(0, 30, 274, 430);

frame.getContentPane().add(panel);

panel.setLayout(null);

panel.setBackground(new Color(0, 51, 51));

JButton btnNewButton\_1 = new JButton("Calculate BMI");

btnNewButton\_1.addActionListener(new ActionListener() {

public void actionPerformed(ActionEvent e) {

layeredPane.removeAll();

layeredPane.add(panel\_2);

layeredPane.repaint();

layeredPane.validate();

}

});

btnNewButton\_1.setForeground(Color.BLACK);

btnNewButton\_1.setFont(new Font("Century Schoolbook", Font.BOLD, 15));

btnNewButton\_1.setBackground(new Color(255, 255, 255));

btnNewButton\_1.setBounds(0, 106, 274, 37);

panel.add(btnNewButton\_1);

JButton btnAbout = new JButton("BMI Chart");

btnAbout.addActionListener(new ActionListener() {

public void actionPerformed(ActionEvent e) {

layeredPane.removeAll();

layeredPane.add(panel\_4);

layeredPane.repaint();

layeredPane.validate();

}

});

btnAbout.setForeground(Color.BLACK);

btnAbout.setFont(new Font("Century Schoolbook", Font.BOLD, 15));

btnAbout.setBackground(Color.WHITE);

btnAbout.setBounds(0, 250, 274, 37);

panel.add(btnAbout);

JButton btnExit = new JButton("Exit");

btnExit.addActionListener(new ActionListener() {

public void actionPerformed(ActionEvent e) {

System.exit(0);

}

});

btnExit.setForeground(Color.BLACK);

btnExit.setFont(new Font("Century Schoolbook", Font.BOLD, 15));

btnExit.setBackground(Color.WHITE);

btnExit.setBounds(0, 298, 274, 37);

panel.add(btnExit);

JButton btnBmiChart = new JButton("BMI Formula");

btnBmiChart.addActionListener(new ActionListener() {

public void actionPerformed(ActionEvent e) {

layeredPane.removeAll();

layeredPane.add(panel\_3);

layeredPane.repaint();

layeredPane.validate();

}

});

btnBmiChart.setForeground(Color.BLACK);

btnBmiChart.setFont(new Font("Century Schoolbook", Font.BOLD, 15));

btnBmiChart.setBackground(Color.WHITE);

btnBmiChart.setBounds(0, 202, 274, 37);

panel.add(btnBmiChart);

JButton btnNewButton\_1\_1 = new JButton("Basic Info");

btnNewButton\_1\_1.addActionListener(new ActionListener() {

public void actionPerformed(ActionEvent e) {

layeredPane.removeAll();

layeredPane.add(panel\_6);

layeredPane.repaint();

layeredPane.validate();

}

});

btnNewButton\_1\_1.setForeground(Color.BLACK);

btnNewButton\_1\_1.setFont(new Font("Century Schoolbook", Font.BOLD, 15));

btnNewButton\_1\_1.setBackground(Color.WHITE);

btnNewButton\_1\_1.setBounds(0, 154, 274, 37);

panel.add(btnNewButton\_1\_1);

JLabel lblNewLabel\_6 = new JLabel("BMI Calculator Application by 19sw01");

lblNewLabel\_6.setForeground(new Color(255, 255, 255));

lblNewLabel\_6.setFont(new Font("Segoe UI", Font.BOLD, 15));

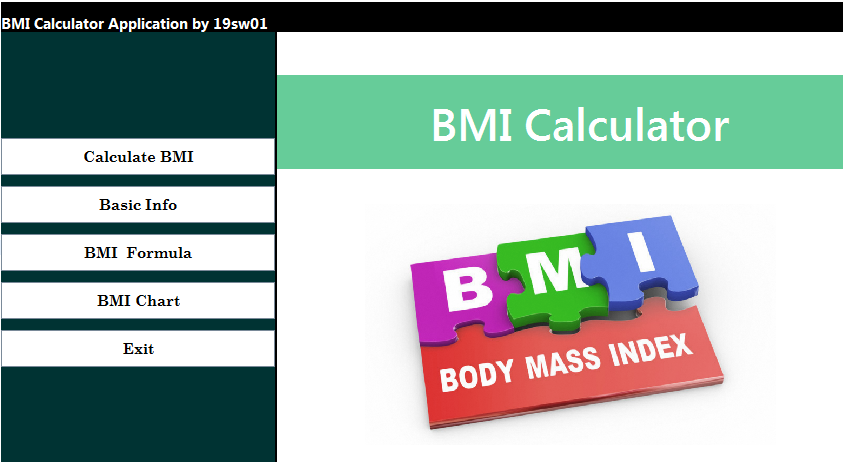
lblNewLabel\_6.setBounds(0, 11, 274, 19);

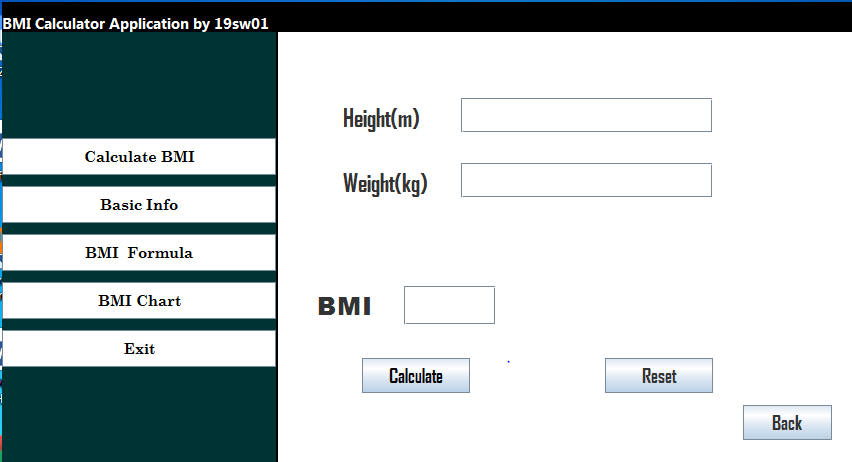
frame.getContentPane().add(lblNewLabel\_6);

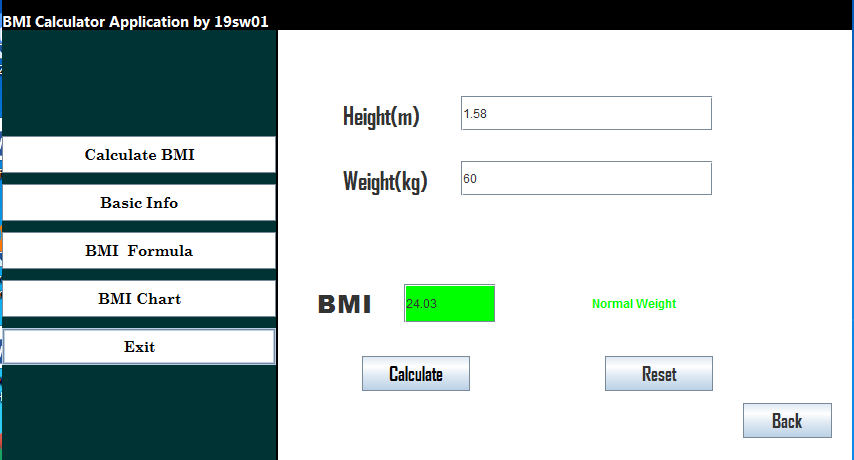
}

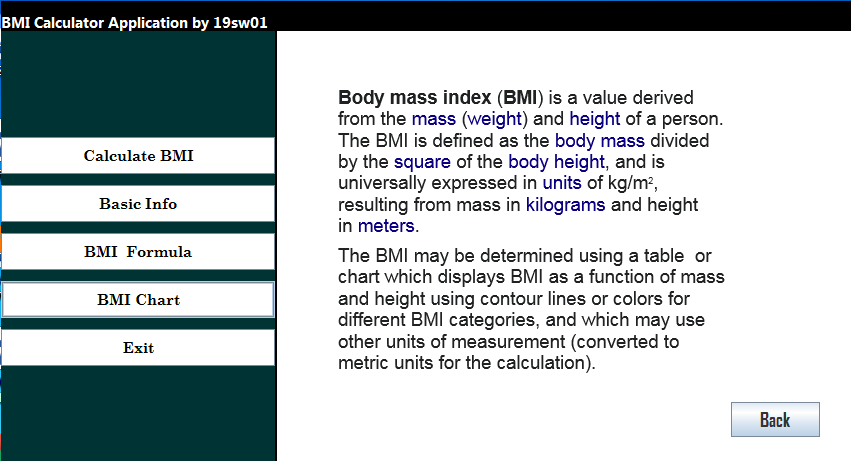
}

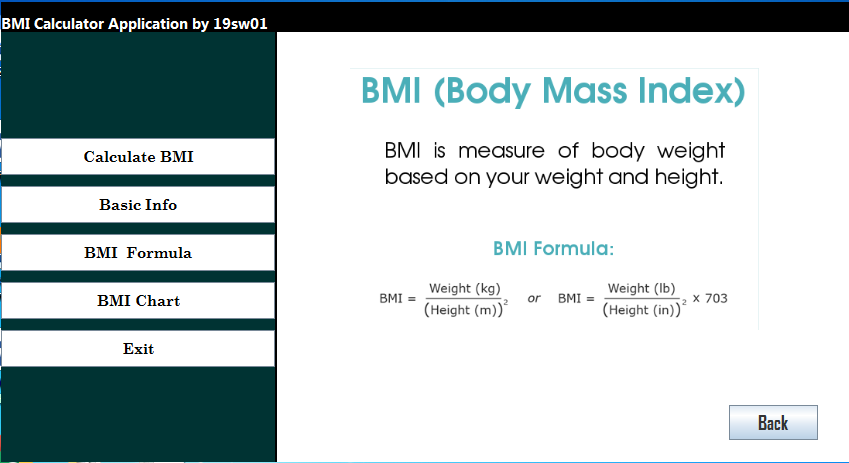
**Output:**

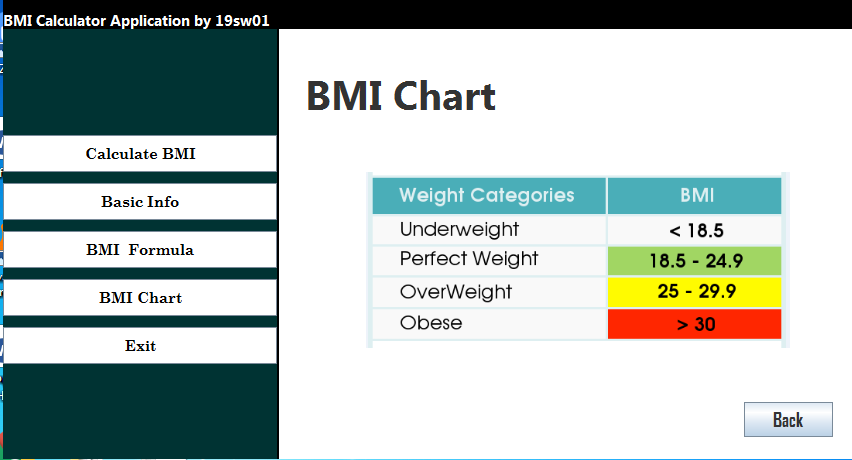
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