



Object Oriented Programming Practicum

ICT2132

Introduction to GUI Development with JAVA Swing

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Lesson 05

Outline

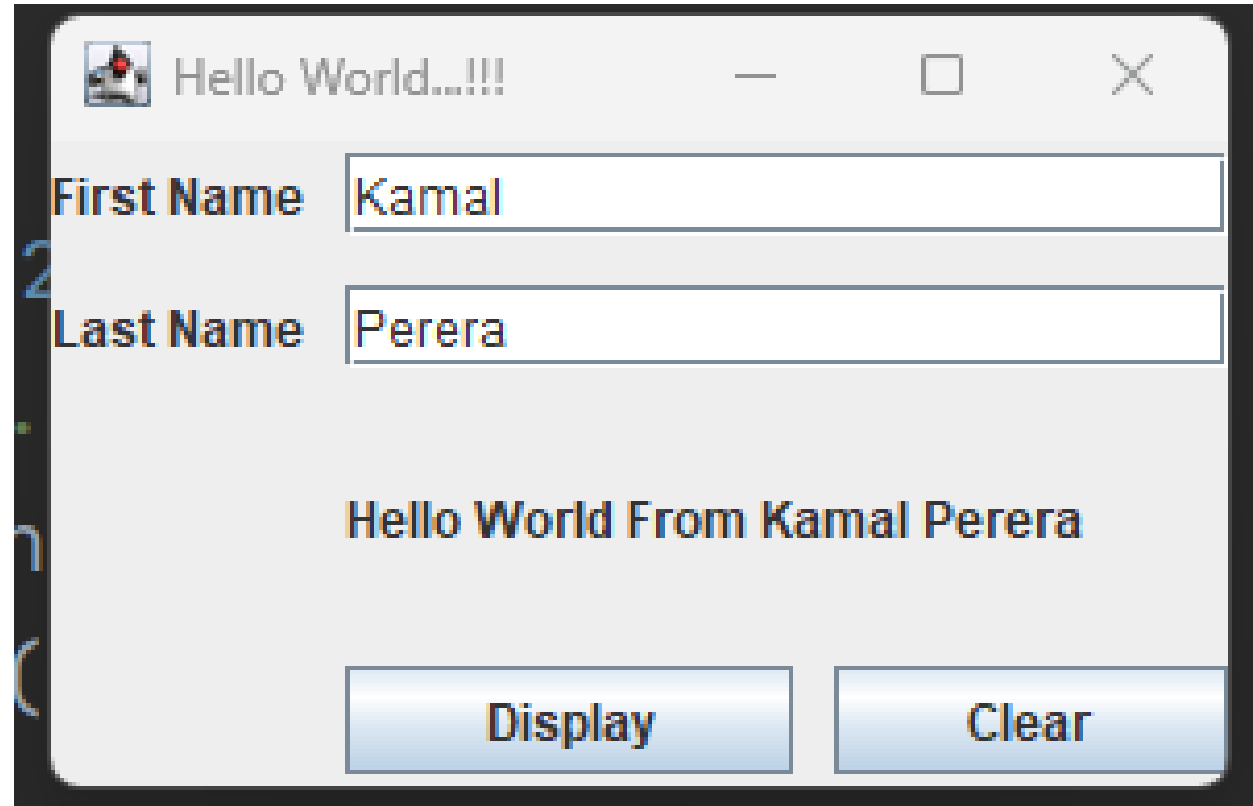
- Writing your First GUI Application
- Creating a Simple Form
- Developing a BMI Calculator

Let's Say Hello

- Hands-On
 - Extends JFrame
 - setTitle
 - setSize
 - setVisible
 - setDefaultCloseOperation

Let's Create a Simple Form

- Hands-On
 - addActionListner



The image shows a Java Swing window titled "Hello World...!!!". Inside the window, there is a form with two text input fields. The first field is labeled "First Name" and contains the text "Kamal". The second field is labeled "Last Name" and contains the text "Perera". Below these fields, there is a line of text that reads "Hello World From Kamal Perera". At the bottom of the window, there are two buttons: "Display" and "Clear".

Developing a BMI calculator – Team up

(*Body Mass Index Calculator App*) The formulas for calculating the BMI are

$$BMI = \frac{weightInPounds \times 703}{heightInInches \times heightInInches}$$

or

$$BMI = \frac{weightInKilograms}{heightInMeters \times heightInMeters}$$

Create a BMI calculator app that allows users to enter their weight and height and whether they are entering these values in English or metric units, then calculates and displays the user's body mass index. The app should also display the following information from the Department of Health and Human Services/National Institutes of Health so that users can evaluate their BMIs:

BMI VALUES

Underweight: less than 18.5

Normal: between 18.5 and 24.9

Overweight: between 25 and 29.9

Obese: 30 or greater

GUI Development with JAVA FX

- https://docs.oracle.com/javase/8/javafx/get-started-tutorial/get_start_apps.htm#BACECIIB
- https://docs.oracle.com/javase/8/javafx/get-started-tutorial/hello_world.htm
- <https://docs.oracle.com/javase/8/javafx/get-started-tutorial/form.htm>

Summary

- Writing your First GUI Application
- Creating a Simple Form
- Developing a BMI Calculator

References

- <https://www.jetbrains.com/help/idea/gui-designer-basics.html>

Questions ???





Thank You