a simple Swing-based Java GUI application for converting

temperatures from Fahrenheit to Celsius and optionally to Kelvin.

The application includes the following components:

a. Text Field (txtInput): Allows the user to input a temperature in

Fahrenheit.

b. Radio Buttons (rbCelsius, rbKelvin): Provide two options for

temperature conversion. "to Celsius" is selected by default (rbCelsius),

and "to Kelvin" is the alternative option (rbKelvin). Button Group

(selection): Ensures that only one radio button can be selected at a

time, allowing the user to choose between Celsius and Kelvin

conversions.

c. Buttons (button1): Includes a "Show Result" button that triggers the

conversion calculation based on user input.

d. Label (lblResult): Displays a message instructing the user to enter

Fahrenheit, choose a conversion option, and click "Show Result."

Additionally, it shows the result of the conversion.

e. ActionListener (actionPerformed method): Listens for button clicks

and performs the temperature conversion based on user input.

● The temperature conversion formula used in the code is:

a. Celcius = ((5/9)\*(Ferenheit‐32)).

● If the user selects the "to Kelvin" option, an additional adjustment is made by

adding 273.15 to the Celsius result.