

### **Lab 8 –GUI-based Development**

***Answer the following questions.***

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***Note: You may use the netbeans IDE toolbox for designing the graphical user interface.***

#### Exercise:

1. Write a program that adds a group of radio buttons to select background colours. The available colours are red, yellow, white, gray, and green.
2. Write a program that creates a simple calculator performs add, subtract, multiply and divide operations.
3. Write a program that converts miles and kilometres. If you enter a value in the Mile text field and press that Enter key, the corresponding kilometre is displayed in the Kilometer text field.
4. Write a program that calculates the future value of an investment at a given interest rate for a specified number of years. The formula for the calculation is as follows:

$$\text{futureValue} = \text{investmentAmount} * (1 + \text{monthlyInterestRate})^{\text{years} * 12}$$

Use text fields for interest rate, investment amount, and years. Display the future amount in a text field when the user clicks the Calculator button.