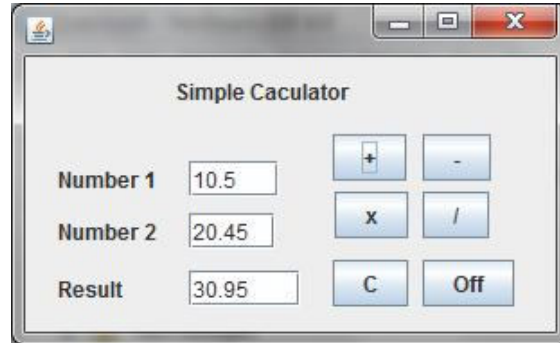# P R A C T I C A L – A S S I G N M E N T S

Experiment No. 1:

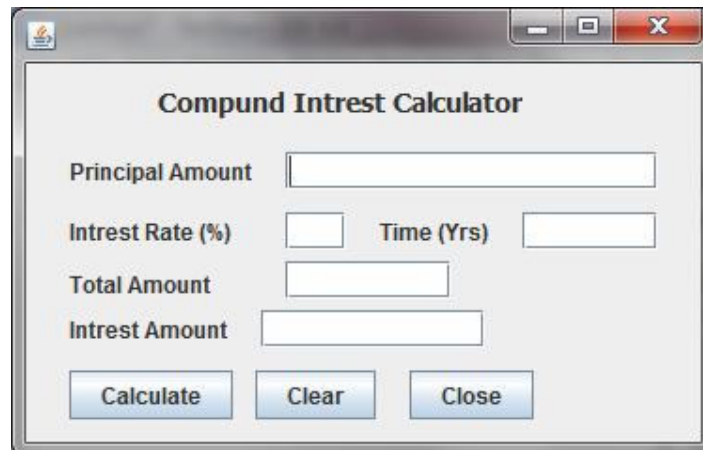**Objective:** Understanding and use of variables of float and other data types.
Task: Develop a simple Calculator application as per given screen snapshot, to implement +, -, x and / operations. The text boxes get cleared when 'C' button is clicked.

Experiment No. 2:

Objective: Understanding the real life application requirement and developing a solution.
Task: Develop a Compound Interest Calculator application as per given screen snapshot, to calculate total amount for given Amount, Rate of Interest and Time using $(A=P(1+R/100)^T)$ and Interest I=A-P.
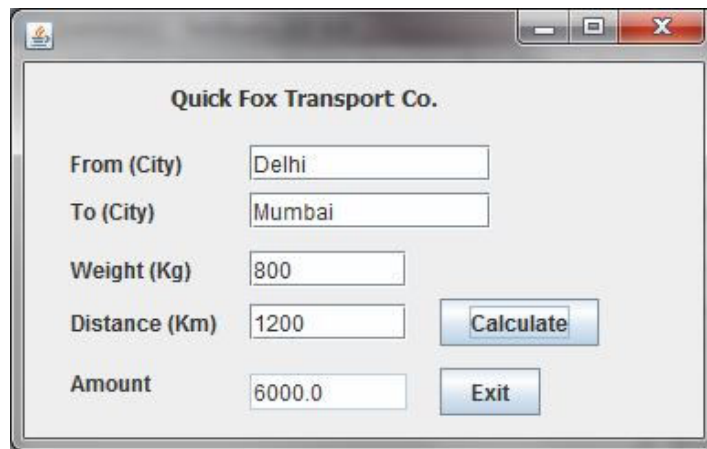

Experiment No. 3:

Objective: Understanding and use of Nested conditions in the Real life applications.
Task: A Quick Fox Transport Co. wants to develop an application for calculating amount based on distance and weight of goods.
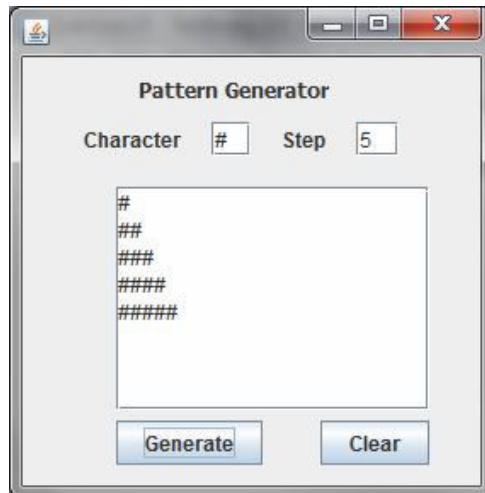The charges (Amount) to be calculated as per rates given below.

Distance	Weight	Charges per Km.
>=500 Km	>=100 kg.	Rs. 5/-
	>=10 and <100 kg.	Rs. 6/-
	< 10 kg.	Rs. 7/-
<500 Km	>=100 Kg.	Rs.8/-
	<100 Kg.	Rs.5/-

Experiment No. 4:

Objective: Understanding and use of Nested loops and Text Area control.
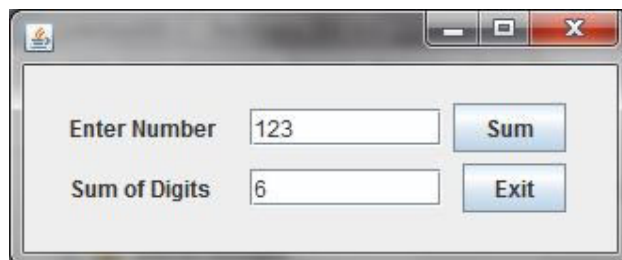**Task:** Develop a Java application to print a Pattern for given character and steps, as per given screen shot.

Experiment No. 5:

Objective: Understanding the use of loops and mathematical operations.
**Task:** Develop an application to compute the sum of digits for given number.

Experiment No. 6:

Objective: Understanding and developing a logic to solve a problem. Use of nested loops and breaking it prematurely.
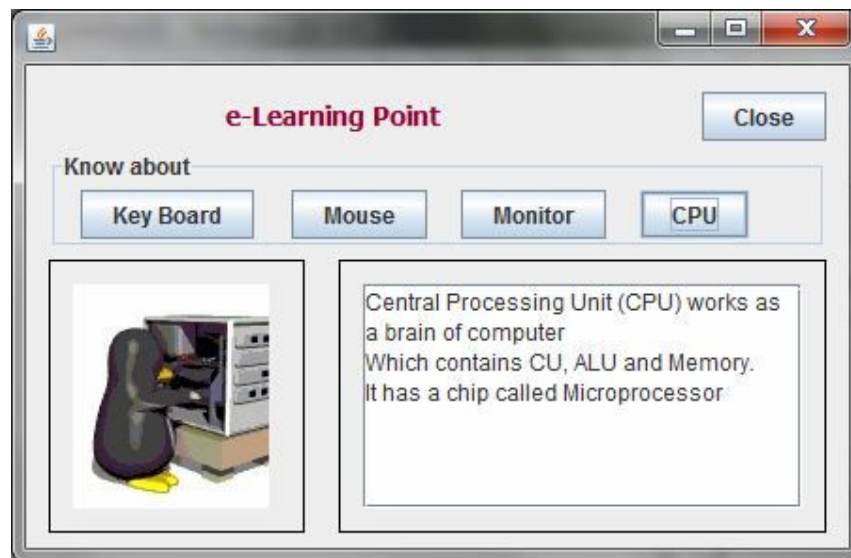
Task: Develop a Prime Number Generator Application which generates Prime numbers for given range. Prime numbers are those numbers which are divisible by one or itself only.
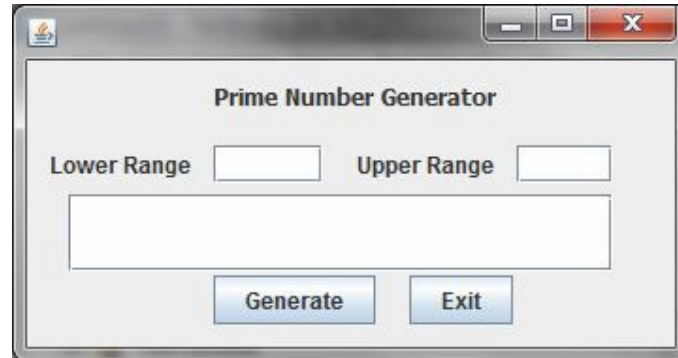
Experiment No. 8:

Objective: Displaying images on a Label and Text Area control.

Task: Develop an e-Learning application with images and text information as per given screen shot.

Experiment No. 7:

Objective: Use of Slider or Scroll bar control to get user input and using it some calculation.

Task: Develop a Temperature Converter application which converts selected Celsius temperature on a scale and displays it equivalent Fahrenheit temperature.
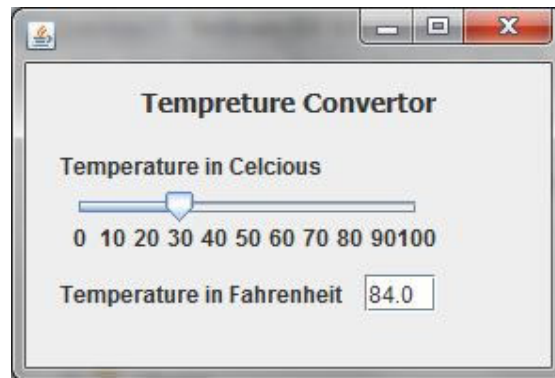
Experiment No. 9:

Objective: Demonstration of use of List Dynamically through code.

Task: Develop an application as per given screen shot to Add , Remove the given members of list and display the selected item in a text field using List control.

Experiment No. 10:

Objective: Understanding and using the Radio Button in Real-life application to determine the selection of choice and calculations accordingly.

Task: Develop a Billing application for Happy Shoping- A retail chain involved in sales of Readymade garments. The happy Shoping offers discount to its members holding Platinum, Gold and Silver card.

The 10% discount is given to Platinum card, 8% to Gold Card and 5% to Silver Card holders on sales amount.

Experiment No. 11:

Objective: Understanding and using the Radio Button in Real-life application to determine the selection of choices and calculations accordingly.

Task: The Entertainment Paradise- A theater in Delhi wants to develop a computerized Booking System. The proposed Interface is given below. The theater offers different types of seats. The Ticket rates are-

Stalls- Rs. 625/-, Circle- Rs.750/-, Upper Class- Rs.850/- and Box- Rs.1000/-.

A discount is given 10% of total amount if tickets are purchased on Cash. In case of credit card holders 5% discount is given.