Expt. No. 1a:

Develop Programs using Java Basic Constructs (Data Types, Variables, Operators & Expressions) using ECLIPSE

i. Mobile Recharge Application

A mobile recharge application calculates the final amount to be paid after applying a flat discount. The user enters the recharge amount as an integer, and the discount as a percentage (e.g., 10.0). Write a Java program segment that declares appropriate variables using suitable data types, applies the discount using arithmetic operators, and prints the final amount to be paid.

ii. Electricity Bill Calculator

An electricity board charges customers based on their monthly usage. The first 100 units are charged at ₹1.50 per unit, and units above 100 are charged at ₹2.50 per unit. Create a Java code snippet that takes the number of units consumed as input, uses suitable data types and variables, and calculates the total bill using expressions and operators.

iii. BMI Calculator

You are designing a health app that calculates the Body Mass Index (BMI) of a user. The user provides height in meters and weight in kilograms. Write a Java code snippet using appropriate data types, variables, and expressions to compute BMI using the formula BMI = weight / (height * height). Also, print the BMI result.