**1.Default calculator using Java**

import java.util.Scanner;﻿public class Main{﻿    public static void main (String[] args) {﻿        Scanner scanner = new Scanner(System.in);﻿        System.out.println("Select operation:");﻿        System.out.println("1. Add\n2. Subtract\n3. Multiply\n4. Divide\n5. Square Root\n6. Exponentiation");﻿        System.out.println("7. Temperature Conversion\n8. Currency Conversion");﻿        int choice = scanner.nextInt();﻿        try {﻿            if (choice >= 1 && choice <= 4) {﻿                System.out.print("Enter first number: ");﻿                double num1 = scanner.nextDouble();﻿                System.out.print("Enter second number: ");﻿                double num2 = scanner.nextDouble();﻿                switch (choice) {﻿                    case 1 -> System.out.println("Result: " + (num1 + num2));﻿                    case 2 -> System.out.println("Result: " + (num1 - num2));﻿                    case 3 -> System.out.println("Result: " + (num1 \* num2));﻿                    case 4 -> {﻿                        if (num2 != 0) System.out.println("Result: " + (num1 / num2));﻿                        else System.out.println("Error: Cannot divide by zero!");﻿                    }﻿                }﻿            } else if (choice == 5) {﻿                System.out.print("Enter number: ");﻿                double num = scanner.nextDouble();﻿                System.out.println("Result: " + Math.sqrt(num));﻿            } else if (choice == 6) {﻿                System.out.print("Enter base: ");﻿                double base = scanner.nextDouble();﻿                System.out.print("Enter exponent: ");﻿                double exponent = scanner.nextDouble();﻿                System.out.println("Result: " + Math.pow(base, exponent));﻿            } else if (choice == 7) {﻿                System.out.println("Select conversion: 1. Celsius to Fahrenheit 2. Fahrenheit to Celsius");﻿                int tempChoice = scanner.nextInt();﻿                System.out.print("Enter temperature: ");﻿                double temp = scanner.nextDouble();﻿                if (tempChoice == 1) {﻿                    System.out.println("Result: " + (temp \* 9 / 5 + 32) + " °F");﻿                } else if (tempChoice == 2) {﻿                    System.out.println("Result: " + ((temp - 32) \* 5 / 9) + " °C");﻿                } else {﻿                    System.out.println("Invalid choice!");﻿                }﻿            } else if (choice == 8) {﻿                System.out.print("Enter amount in USD: ");﻿                double usd = scanner.nextDouble();﻿                double inrRate = 82.5; // Example conversion rate﻿                System.out.println("Result: " + (usd \* inrRate) + " INR");﻿            } else {﻿                System.out.println("Invalid choice!");﻿            }﻿        } catch (Exception e) {﻿            System.out.println("Invalid input! Please enter valid numbers.");﻿        } finally {﻿            scanner.close();﻿        }﻿    }﻿}