I can help you with that. Here's a breakdown of how to create a Java application to generate electricity bills, along with explanations to guide you:

1. Create the ElectricityBill Class

```java
public class ElectricityBill {
    int consumerNo;
    String consumerName;
    int previousMonthReading;
    int currentMonthReading;
    String connectionType;

    public ElectricityBill(int consumerNo, String consumerName, int previousMonthReading, int currentMonthReading, String connectionType) {
        this.consumerNo = consumerNo;
        this.consumerName = consumerName;
        this.previousMonthReading = previousMonthReading;
        this.currentMonthReading = currentMonthReading;
        this.connectionType = connectionType;
    }

    public double calculateBill() {
        int unitsConsumed = currentMonthReading - previousMonthReading;
        double billAmount = 0;

        if (connectionType.equalsIgnoreCase("domestic")) {
            if (unitsConsumed <= 100) {
                billAmount = unitsConsumed * 1.0;
            } else if (unitsConsumed <= 200) {
                billAmount = 100 * 1.0 + (unitsConsumed - 100) * 2.50;
            } else if (unitsConsumed <= 500) {
                billAmount = 100 * 1.0 + 100 * 2.50 + (unitsConsumed - 200) * 4.0;
            } else {
                billAmount = 100 * 1.0 + 100 * 2.50 + 300 * 4.0 + (unitsConsumed - 500) * 6.0;
            }
        } else if (connectionType.equalsIgnoreCase("commercial")) {
            // Implement commercial tariff calculation here
        } else {
            System.out.println("Invalid connection type.");
        }

        return billAmount;
    }

    public void printBill() {
        System.out.println("Consumer No: " + consumerNo);
```

```
        System.out.println("Consumer Name: " + consumerName);
        System.out.println("Units Consumed: " + (currentMonthReading -
previousMonthReading));
        System.out.printf("Bill Amount: GH₵%.2f%n", calculateBill());
    }
}
```

2. Create the Main Class
```
public class Main {
    public static void main(String[] args) {
        ElectricityBill consumer1 = new ElectricityBill(12345, "John
Doe", 1000, 1250, "domestic");
        consumer1.printBill();

        ElectricityBill consumer2 = new ElectricityBill(67890, "Jane
Smith", 50, 150, "domestic");
        consumer2.printBill();
    }
}
```

Explanation
  ● **ElectricityBill Class:**
    ○ Stores consumer information (number, name, readings, connection type).
    ○ The calculateBill() method determines the bill amount based on the connection type
      and units consumed.
    ○ The printBill() method displays the bill details in a user-friendly format.
  ● **Main Class:**
    ○ Creates ElectricityBill objects to represent different consumers.
    ○ Calls the calculateBill() and printBill() methods to generate and display the bills.
How to Run
  1. Save the code as ElectricityBill.java and Main.java.
  2. Compile the code using a Java compiler (like javac):
     ```
     javac ElectricityBill.java
     javac Main.java
     ```

  3. Run the Main class:
     ```
     java Main
     ```

This will output the electricity bill details for the consumers.
Additional Notes:
  ● You can expand this application to handle commercial connections by adding a tariff
    structure for commercial consumers in the calculateBill() method.
  ● You can add input validation to ensure that the readings and consumer numbers are valid.
  ● You can store the consumer data in a file or database for persistence.
Let me know if you have any other questions.