ELECTRICITY BILLING SYSTEM

```java
import java.util.Scanner;
class Customer {
    private String name;
    private String accountNumber;
    private double unitsConsumed;

    public Customer(String name, String accountNumber, double unitsConsumed) {
        this.name = name;
        this.accountNumber = accountNumber;
        this.unitsConsumed = unitsConsumed;
    }

    public double getUnitsConsumed() {
        return unitsConsumed;
    }

    public String getName() {
        return name;
    }

    public String getAccountNumber() {
        return accountNumber;
    }
}

class BillingSystem {
    private static final double RATE_PER_UNIT = 0.15; // Example rate per unit
    private static final double FIXED_CHARGE = 10.00; // Fixed charge per bill
```

```java
    public static double calculateBill(Customer customer) {

        double units = customer.getUnitsConsumed();

        return (units * RATE_PER_UNIT) + FIXED_CHARGE;

    }

}


public class ElectricityBillingSystem {

    public static void main(String[] args) {

        Scanner scanner = new Scanner(System.in);


        System.out.println("Enter customer name:");

        String name = scanner.nextLine();


        System.out.println("Enter account number:");

        String accountNumber = scanner.nextLine();


        System.out.println("Enter units consumed:");

        double unitsConsumed = scanner.nextDouble();


        // Create a Customer object

        Customer customer = new Customer(name, accountNumber, unitsConsumed);


        // Calculate the bill

        double billAmount = BillingSystem.calculateBill(customer);


        // Output the bill

        System.out.println("\n--- Bill Statement ---");

        System.out.println("Customer Name: " + customer.getName());

        System.out.println("Account Number: " + customer.getAccountNumber());

        System.out.println("Units Consumed: " + customer.getUnitsConsumed());
```

```java
        System.out.println("Total Bill: $" + String.format("%.2f", billAmount));


        scanner.close();
    }
}
```