

Answer on Question #50962, Programming, Java | JSP | JSF

Problem.

An electricity board charges the following rates to domestic users:- For the first 100 units – 40p/unit For the next 200 units – 50p/unit Beyond 300 units – 60p/unit. Write a program to read the names of users and number of units consumed and print out the charges with names. Use the concepts of classes.

Code (User.java)

```
public class User {
    /**
     * Units consumed.
     */
    private float units;

    /**
     * User name.
     */
    private String name;

    /**
     * Default constructor.
     * @param name user name.
     * @param units units consumed.
     */
    public User(String name, float units) {
        this.units = units;
        this.name = name;
    }

    /**
     * Print out charges with names
     */
    public void printCharge() {
        float charge;
        if (units < 100) {
            charge = units * 40;
        } else if (100 <= units && units < 200) {
            charge = (units - 100) * 50 + 4000;
        } else {
            charge = (units - 200) * 60 + 5000 + 4000;
        }
        System.out.format("Name: %s Charge: %.2f\n", name, charge);
    }
}
```

Code (Main.java)

```
import java.util.Scanner;

public class Main {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);

        // Input
        String name = sc.next();

        User[] users = new User[5];
        int size = 0;
        while (!name.equals("end")) {
            float units = sc.nextFloat();
            users[size] = new User(name, units);
            name = sc.next();
            size++;
        }
    }
}
```

