

## **OOPJ- Termwork**

### **1. Electricity Cost Estimate**

Write a console-based java program to estimate electricity bill for a device based on given user input. Take wattage of the device, number of usage hours/day from the user

Steps to calculate cost:

- Multiply the device's wattage by the number of hours the appliance is used per day
- Divide by 1000
- Multiply by your kWh rate

For example, if you have a 150 watt television that you watch five hours per day, it consumes 750 watt-hours per day ( $150 \times 5 = 750$ ). Divide 750 by 1000 to convert 750 watt-hours into 0.75 kWh ( $750 \div 1000 = 0.75$ ). If your electricity rate is 70 paisa per kWh, that means it costs 525 Paisa per day to use your television ( $0.75 \times 70 = 52.5$ ). That should account for about Rs. 15.75 of your monthly electric bill ( $52.5 \times 30 = 1575$ ).

### **2. Write a java program using socket for client server communication.**