package com.java.cdac.Exception;

import java.util.InputMismatchException;

import java.util.Scanner;

class ElectricityBill1{

String customerName;

double unitsConsumed;

double billAmount;

public ElectricityBill1() {

}

ElectricityBill1(String name, double unitsConsumed) throws IllegalArgumentException{

this.customerName = name;

if(unitsConsumed>0){

this.unitsConsumed = unitsConsumed;

}

else{

throw new IllegalArgumentException();

}

}

void calculateBillAmount() {

if(unitsConsumed <= 100) {

billAmount = unitsConsumed \* 5;

}

else if(unitsConsumed <= 30) {

billAmount = unitsConsumed \* 7;

}

else {

billAmount = unitsConsumed \* 10;

}

}

void displayBill() {

System.***out***.println("Customer Name : "+customerName);

System.***out***.println("Units Consumed : "+unitsConsumed);

System.***out***.println("Total Amount : "+billAmount);

}

}

public class Q1ElectricityBill {

public static void main(String[] args) throws Exception {

double unit =0;

String name ="";

ElectricityBill1 eb = null;

Scanner sc = new Scanner(System.***in***);

try{

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

name = sc.nextLine();

for (int i = 0; i < name.length(); i++) {

// Check if the character is not a digit

if (Character.*isDigit*(name.charAt(i))) {

// If any character is not a digit, return false

throw new IllegalArgumentException();

}

}

System.***out***.println("Enter electricity unit of customer : ");

unit = sc.nextInt();

eb = new ElectricityBill1(name, unit);

}

catch (InputMismatchException e)

{

e.printStackTrace();

}

catch (IllegalArgumentException e)

{

e.printStackTrace();

}

eb.calculateBillAmount();

eb.displayBill();

}

}

