

```
#include <stdio.h>

int main() {
    int customerID;
    char customerName[50];
    double unitConsumed, chargesPerUnit, totalBill, surcharge, totalAmountToPay;

    // Prompt the user to enter customer details
    printf("Enter Customer ID: ");
    scanf("%d", &customerID);

    printf("Enter Customer Name: ");
    scanf("%s", customerName);

    printf("Enter Units Consumed: ");
    scanf("%lf", &unitConsumed);

    // Determine charges per unit based on consumption
    if (unitConsumed <= 300) {
        chargesPerUnit = 175;
    } else if (unitConsumed > 300 && unitConsumed < 600) {
        chargesPerUnit = 200;
    } else if (unitConsumed >= 600 && unitConsumed < 800) {
        chargesPerUnit = 300;
    } else {
        chargesPerUnit = 400;
    }

    // Calculate total bill
    totalBill = unitConsumed * chargesPerUnit;

    // Apply surcharge if total bill exceeds Kshs. 500
    if (totalBill > 500) {
        surcharge = 0.20 * totalBill;
        totalBill += surcharge;
    }

    // Ensure the minimum bill is Kshs. 200
    if (totalBill < 200) {
        totalBill = 200;
    }

    // Calculate total amount to pay
    totalAmountToPay = totalBill + surcharge;

    // Display the output
    printf("\nElectricity Bill Details\n");
    printf("Customer ID: %d\n", customerID);
    printf("Customer Name: %s\n", customerName);
```

```
printf("Units Consumed: %.2lf\n", unitConsumed);  
printf("Charges per Unit: Ksh %.2lf\n", chargesPerUnit);  
printf("Total Amount to Pay: Ksh %.2lf\n", totalAmountToPay);  
  
return 0;  
}
```