

30. #include <stdio.h>

```
int main() {  
    char customerName[100];  
    int customerId;  
    float prevMonthReading, currMonthReading, unitsConsumed, tariffRate, totalAmount;  
  
    // Input customer details  
    printf("Enter customer name: ");  
    scanf("%[^\n]%", customerName);  
  
    printf("Enter customer ID: ");  
    scanf("%d", &customerId);  
  
    // Input previous and current month readings  
    printf("Enter previous month reading (in kWh): ");  
    scanf("%f", &prevMonthReading);  
  
    printf("Enter current month reading (in kWh): ");  
    scanf("%f", &currMonthReading);  
  
    // Input tariff rate per unit  
    printf("Enter tariff rate per unit (in Rs/kWh): ");  
    scanf("%f", &tariffRate);  
  
    // Calculate units consumed  
    unitsConsumed = currMonthReading - prevMonthReading;  
  
    // Calculate total amount to be paid  
    totalAmount = unitsConsumed * tariffRate;
```

```
// Display electricity bill

printf("\nElectricity Bill\n");

printf("Customer Name: %s\n", customerName);

printf("Customer ID: %d\n", customerId);

printf("Previous Month Reading: %.2f kWh\n", prevMonthReading);

printf("Current Month Reading: %.2f kWh\n", currMonthReading);

printf("Units Consumed: %.2f kWh\n", unitsConsumed);

printf("Tariff Rate per Unit: Rs. %.2f/kWh\n", tariffRate);

printf("Total Amount to be Paid: Rs. %.2f\n", totalAmount);

return 0;

}
```