In a barrio to make a long distance call you have to be charged according to some rates that differ according to the duration of your call. Write a program that computes the cellular phone bill with the following conditions: Rate = 20.00 for the first three minutes. Succeeding minutes will be charged 4.00 per minute. Your program will ask the duration of the call in minutes then displays the bill.

**Input:** Duration of the Call
**Output:** Transaction Cost
**Process:**
1. Read/Input the value of callDuration, minDuration, ratePrelim, rateSec.
2. Compare the value of callDuration with the value of minDuration.
3. If 0 < callDuration <= minDuration, then transactionCost = ratePrelim
4. Else if callDuration > minDuration, Calculate for transactionCost.
(transactionCost = ratePrelim + (rateSec * (addDuration - minDuration))
5. Else: Display "Value entered is invalid. Please input a positive real number."
6. Display transactionCost.

**Algorithm**

1. Initialize variables: callDuration, transactionCost, minDuration, ratePrelim, rateSec
2. Read/Input the value of callDuration.
3. Read/Input the value of minDuration.
4. Read/Input the value of ratePrelim.
5. Read/Input the value of rateSec.
6. Compare the value of callDuration with the value of minDuration.
6.1. If 0 < callDuration <= minDuration, then transactionCost = ratePrelim
6.2 Else if callDuration > minDuration, Calculate for transactionCost.
(transactionCost = ratePrelim + (rateSec * (addDuration - minDuration))
6.3 Else: Display "Value entered is invalid. Please input a positive real number."
7. Display transactionCost.
8. STOP.

**FLOWCHART**

```
                        ┌─────────────────┐
                        │     START       │
                        └────────┬────────┘
                                 │
                                 ▼
                     ╱─────────────────────╲
                    ╱ callDuration,          ╲
                    ╲ transactionCost,        ╱
                     ╲ minDuration,          ╱
                      ╲ ratePrelim, rateSec ╱
                        └────────┬────────┘
                                 │
                                 ▼
                   ╱────────────────────╲         ╱────────────────────────╲
                  ╱ Read/Input the value  ╲◄──────╱ Display "Value entered    ╲
                  ╲ of callDuration.       ╱       ╲ is invalid. Please input   ╱
                   ╲────────┬─────────────╱         ╲ a positive real number."  ╱
                            │                         └────────────────────────┘
                            ▼                                    ▲
                   ╱────────────────────╲                       │
                  ╱ Read/Input the value  ╲                     │
                  ╲ of minDuration.        ╱                     │
                   ╲────────┬─────────────╱                      │
                            │                                    │
                            ▼                                    │
                   ╱────────────────────╲                       │
                  ╱ Read/Input the value  ╲                     │
                  ╲ of ratePrelim.         ╱                     │
                   ╲────────┬─────────────╱                      │
                            │                                    │
                            ▼                                    │
                   ╱────────────────────╲                       │
                  ╱ Read/Input the value  ╲                     │
                  ╲ of rateSec.            ╱                     │
                   ╲────────┬─────────────╱                      │
                            │                                    │
                            ▼                                    │
                        ◇───────◇      FALSE   ◇───────◇  FALSE  │
                       ◇  Is      ◇───────────►◇  Is     ◇───────┘
                      ◇ 0 <        ◇           ◇          ◇
                      ◇ callDuration◇          ◇callDuration◇
                      ◇ <= minDuration◇        ◇ > minDuration◇
                       ◇    ?    ◇             ◇    ?    ◇
                        ◇───┬───◇               ◇───┬───◇
                       TRUE │                  TRUE │
                            ▼                       ▼
                   ┌────────────────┐     ┌──────────────────────┐
                   │ transactionCost│     │ transaction Cost =    │
                   │  = ratePrelim  │     │ ratePrelim + (rateSec │
                   └────────┬───────┘     │ * (addDuration -      │
                            │             │ minDuration))         │
                            │             └──────────┬───────────┘
                            ▼                         │
                   ╱────────────────────╲◄───────────┘
                  ╱ Display                ╲
                  ╲ transactionCost.       ╱
                   ╲────────┬─────────────╱
                            │
                            ▼
                    ┌──────────────┐
                    │     END      │
                    └──────────────┘
```