Q 1. In a certain city, telephone bill is calculated as per the followings rules:
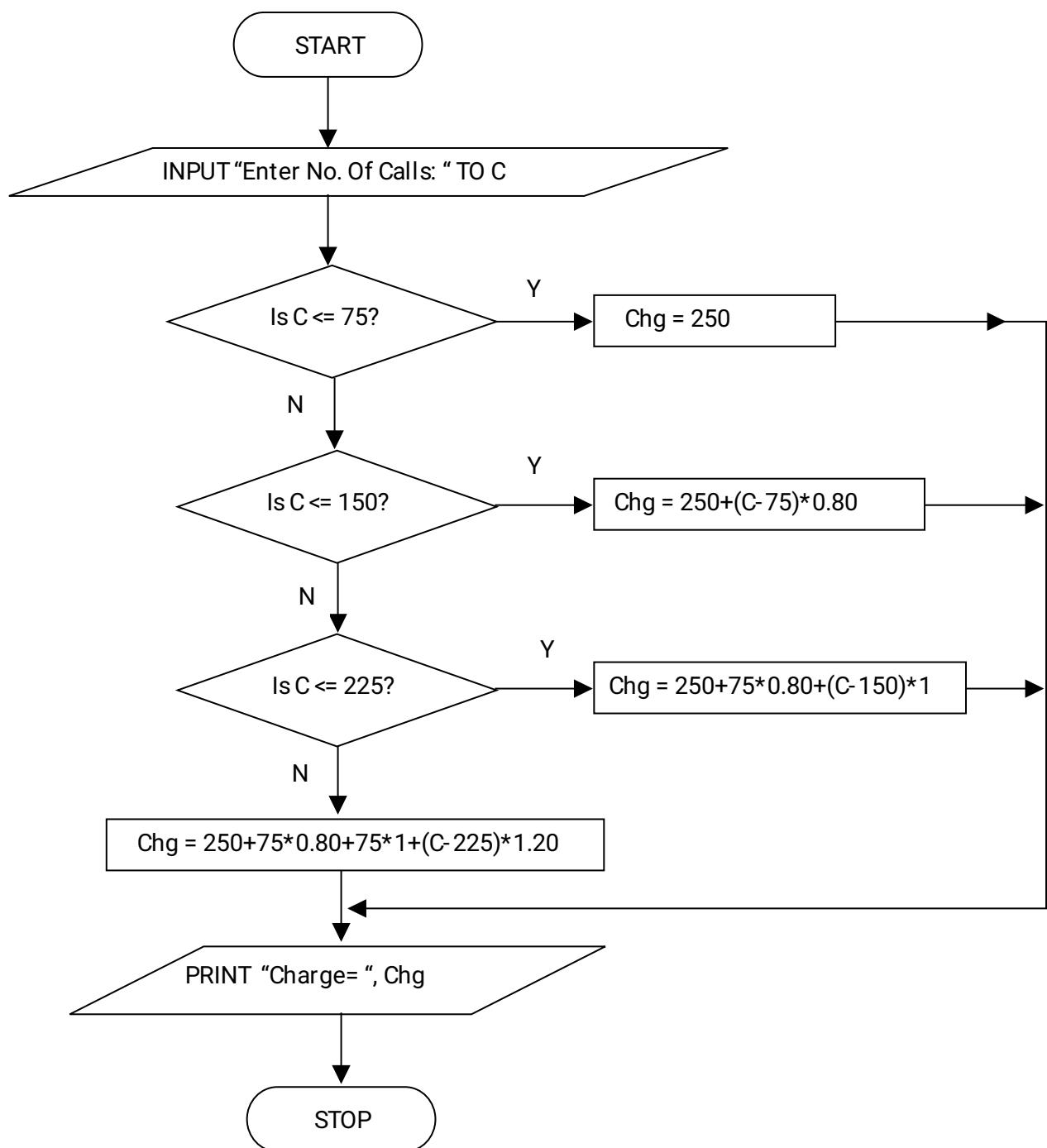
For first 75 calls, charge is fixed and is equal to Rs. 250;

For next 75 calls, the rate is Rs. 0.80 per call;

For next 75 calls, the rate is Rs. 1.00 per call;

For calls beyond that, the rate is Rs. 1.20 per call.

Draw a flowchart to calculate the telephone bill for the subscriber of that city.

```
                    ( START )
                        │
                        ▼
        ┌─────────────────────────────────┐
        │ INPUT "Enter No. Of Calls: " TO C │
        └─────────────────────────────────┘
                        │
                        ▼
              < Is C <= 75? >───Y──►  Chg = 250  ──────────────┐
                        │                                       │
                        N                                       │
                        ▼                                       │
              < Is C <= 150? >──Y──► Chg = 250+(C-75)*0.80 ─────┤
                        │                                       │
                        N                                       │
                        ▼                                       │
              < Is C <= 225? >──Y──► Chg = 250+75*0.80+(C-150)*1 ┤
                        │                                       │
                        N                                       │
                        ▼                                       │
    ┌─────────────────────────────────────────┐                │
    │ Chg = 250+75*0.80+75*1+(C-225)*1.20      │                │
    └─────────────────────────────────────────┘                │
                        │◄──────────────────────────────────────┘
                        ▼
        ┌─────────────────────────────────┐
        │ PRINT "Charge= ", Chg            │
        └─────────────────────────────────┘
                        │
                        ▼
                    ( STOP )
```
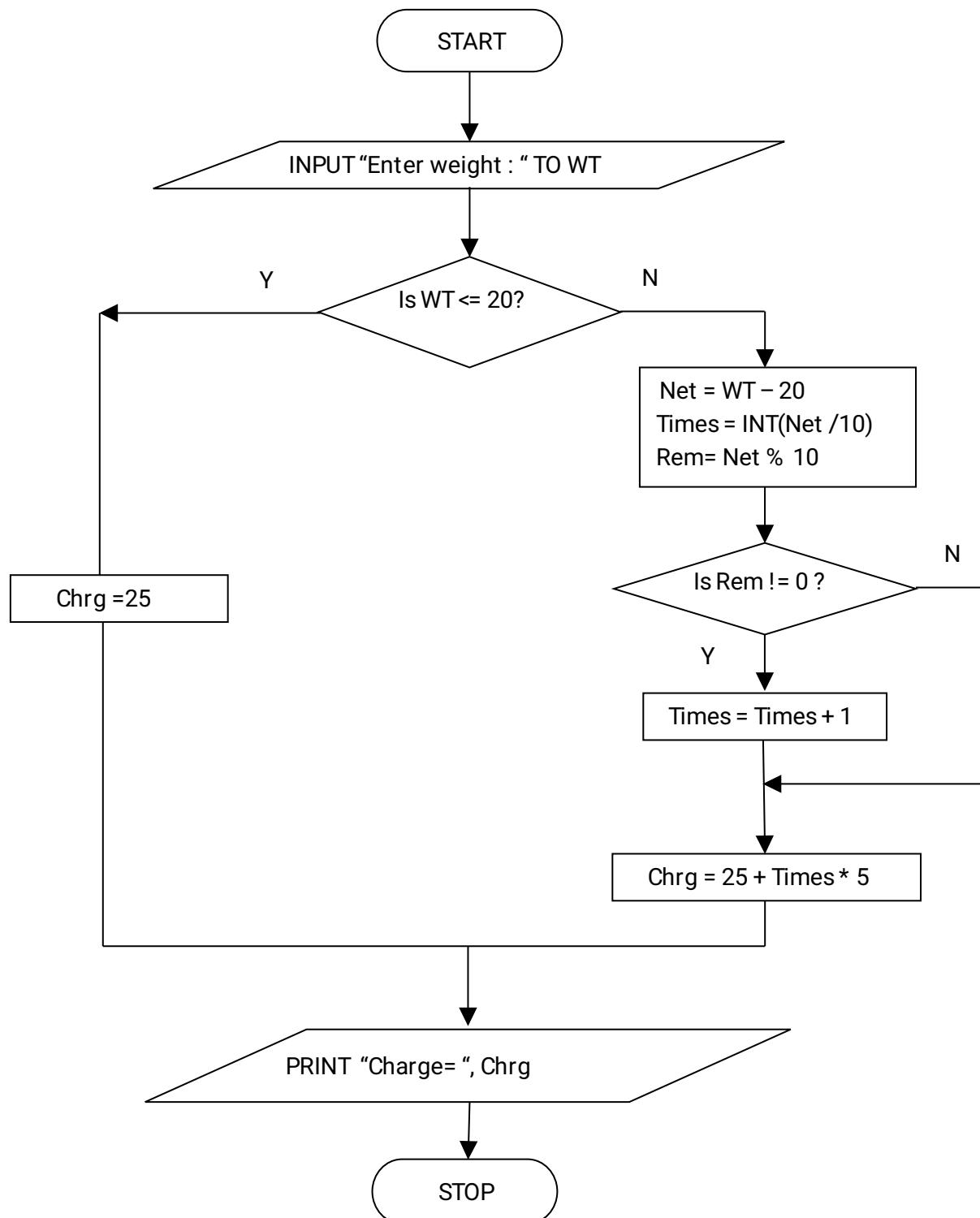
Q 2. In a courier company, charges for parcel is calculated as per the followings rules:
For first 20 gms, charge is fixed and is equal to Rs. 25;
For next each 10 gms and their part of, the charge is Rs. 5.
Draw a flowchart to calculate the charges for the parcel.

START

INPUT "Enter weight : " TO WT

Is WT <= 20?   Y   N

Net = WT − 20
Times = INT(Net /10)
Rem= Net % 10

Is Rem != 0 ?   N   Y

Chrg =25

Times = Times + 1

Chrg = 25 + Times * 5

PRINT "Charge= ", Chrg

STOP

```
                          ┌─────────────┐
                          │    START    │
                          └──────┬──────┘
                                 │
                                 ▼
           ╱──────────────────────────────────────╱
          ╱   INPUT "Enter weight : " TO WT       ╱
         ╱──────────────────────────────────────╱
                                 │
                                 ▼
    Y                      ◇ Is WT <= 20? ◇                      N
   ◄─────────────────────◇                ◇─────────────────┐
                                                            │
                                                            ▼
                                              ┌──────────────────────────┐
                                              │  Net = WT − 20           │
                                              │  Rem= Net % 10           │
                                              │  Net = Net − Rem         │
                                              │  Times = Net /10         │
                                              └────────────┬─────────────┘
                                                           │
                                                           ▼                N
                                              ◇ Is Rem != 0 ? ◇ ───────────┐
                                              ◇               ◇            │
    ┌──────────────┐                                 │ Y                  │
    │  Chrg =25    │                                 ▼                    │
    └──────┬───────┘                      ┌──────────────────────┐        │
           │                              │  Times = Times + 1   │        │
           │                              └──────────┬───────────┘        │
           │                                         │◄───────────────────┘
           │                                         ▼
           │                              ┌──────────────────────┐
           │                              │  Chrg = 25 + Times*5 │
           │                              └──────────┬───────────┘
           │                                         │
           ▼                                         ▼
      ╱────────────────────────────────────────────────────╱
     ╱   PRINT  "Charge= ", Chrg                          ╱
    ╱────────────────────────────────────────────────────╱
                                 │
                                 ▼
                          ┌─────────────┐
                          │    STOP     │
                          └─────────────┘
```