Q1)

```
Start
Read newborn "Cn"
IF Sheep is hungry
    walks into corn meadow
    get first ear
    walk forward
REPEAT
    If next ears > previous ear
        drop previous
UNTIL
    Sheep is out of meadow
```
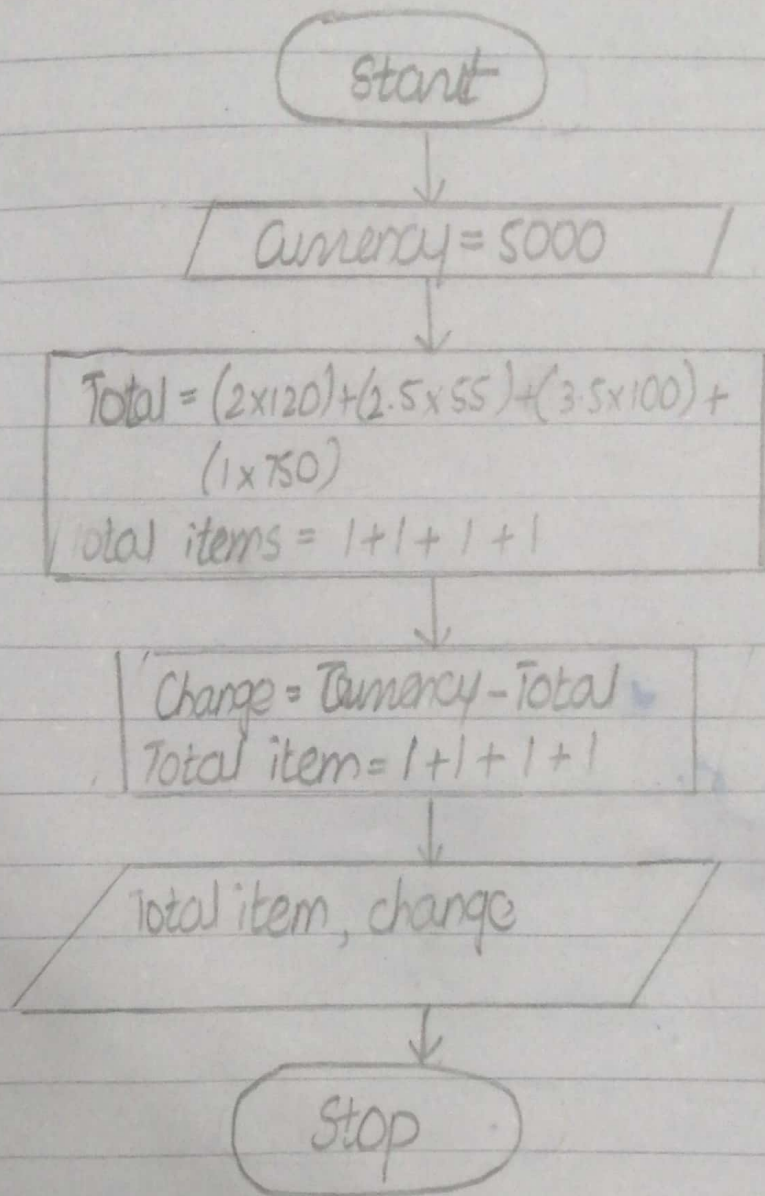
Q2)

```
        ( Start )
            |
            v
  [ Currency = 5000 ]
            |
            v
  | Total = (2×120)+(2.5×55)+(3.5×100)+ |
  |              (1×750)                |
  | Total items = 1+1+1+1              |
            |
            v
  | Change = Currency - Total |
  | Total item = 1+1+1+1      |
            |
            v
  / Total item, change /
            |
            v
        ( Stop )
```

Q3)

Start

/CC balance, purchase, total paymnt/

Read unpaid from CC

If unpaid = 0 → (F) → Unpaid x 1.12

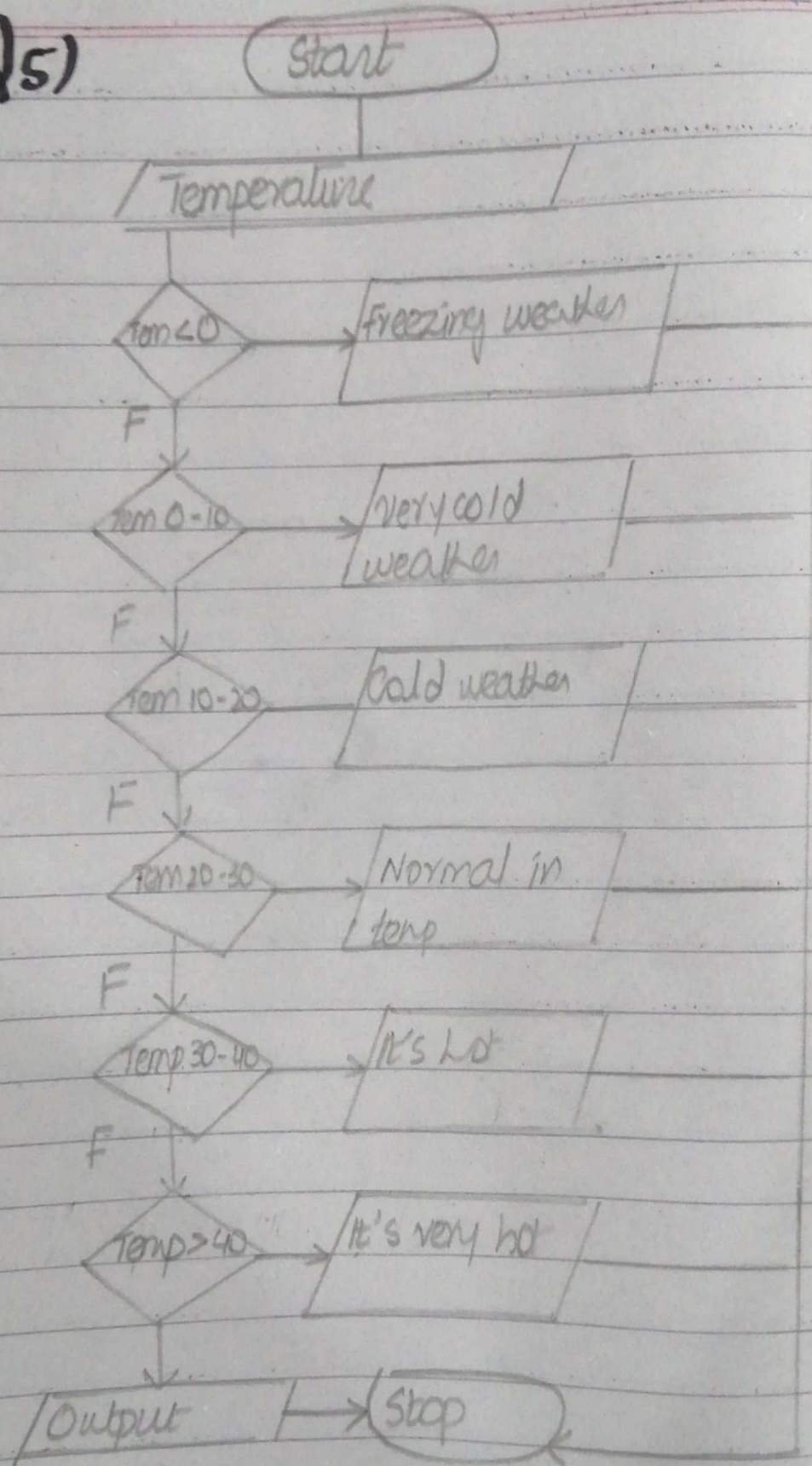(T)

Total = CC balance, pur., tot. paymnt

/ Output Balance /

Stop

Q4)

Start

Input x

If Input = 999 → Stop

x^2, sinx & $\frac{1}{x}$

output x

Q5)

```
        ┌─────────┐
        │  Start  │
        └────┬────┘
             │
    ┌────────────────┐
    │  Temperature   │
    └────────┬───────┘
             │
          ◇ Temp < 0 ──────→ ▱ Freezing weather
             │ F
          ◇ Temp 0-10 ─────→ ▱ very cold weather
             │ F
          ◇ Temp 10-20 ────→ ▱ Cold weather
             │ F
          ◇ Temp 20-30 ────→ ▱ Normal in temp
             │ F
          ◇ Temp 30-40 ────→ ▱ It's hot
             │ F
          ◇ Temp > 40 ─────→ ▱ It's very hot
             │
       ▱ Output ──→ ⬭ Stop
```
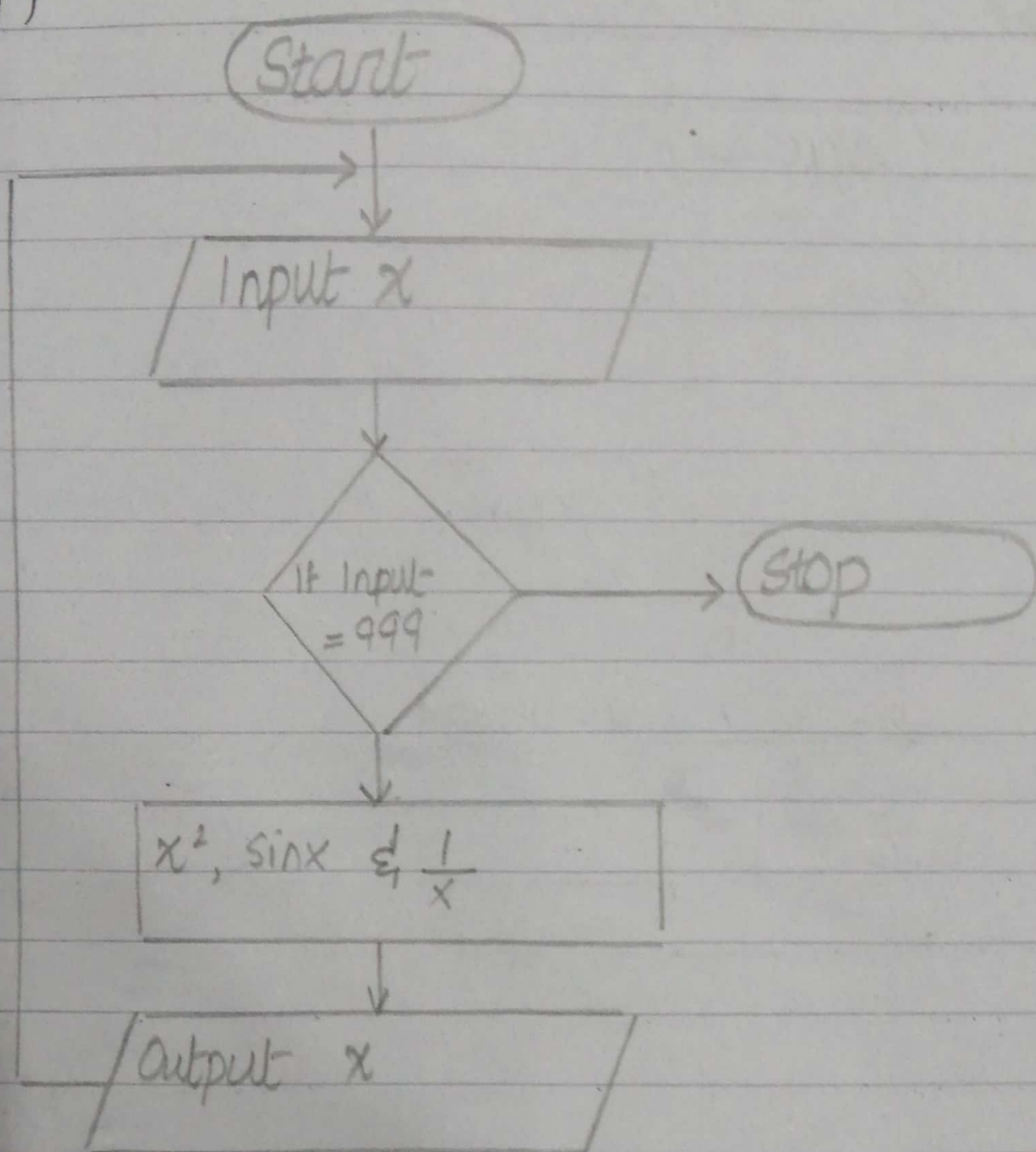
Q7

1. Start
2. Count = 0
3. Read next listen
4. IF item = tea
5. Count = count+1

Else

6. Display count
7. Stop

Q8)

Start

Read operator 'o'

IF   o = = 'q'

ELSE Read op1, op2

IF o = = '+'

THEN Print op1 + op2

     Sum = Op1 + op2

     Sub op2 - op1

IF sum > Sub

THEN Print "Sum is greater"

ELSE Print " sub is greater"

ELSE IF o == '-"
   THEN Print = op 1 -op2
      Sub = op 2 -op 2
      Sum = Op 1 + Op2
IF   Sum > Sub.
THEN Print "Sum is greate"
ELSE Print "Sub is great"
ELSE IF o == '*"
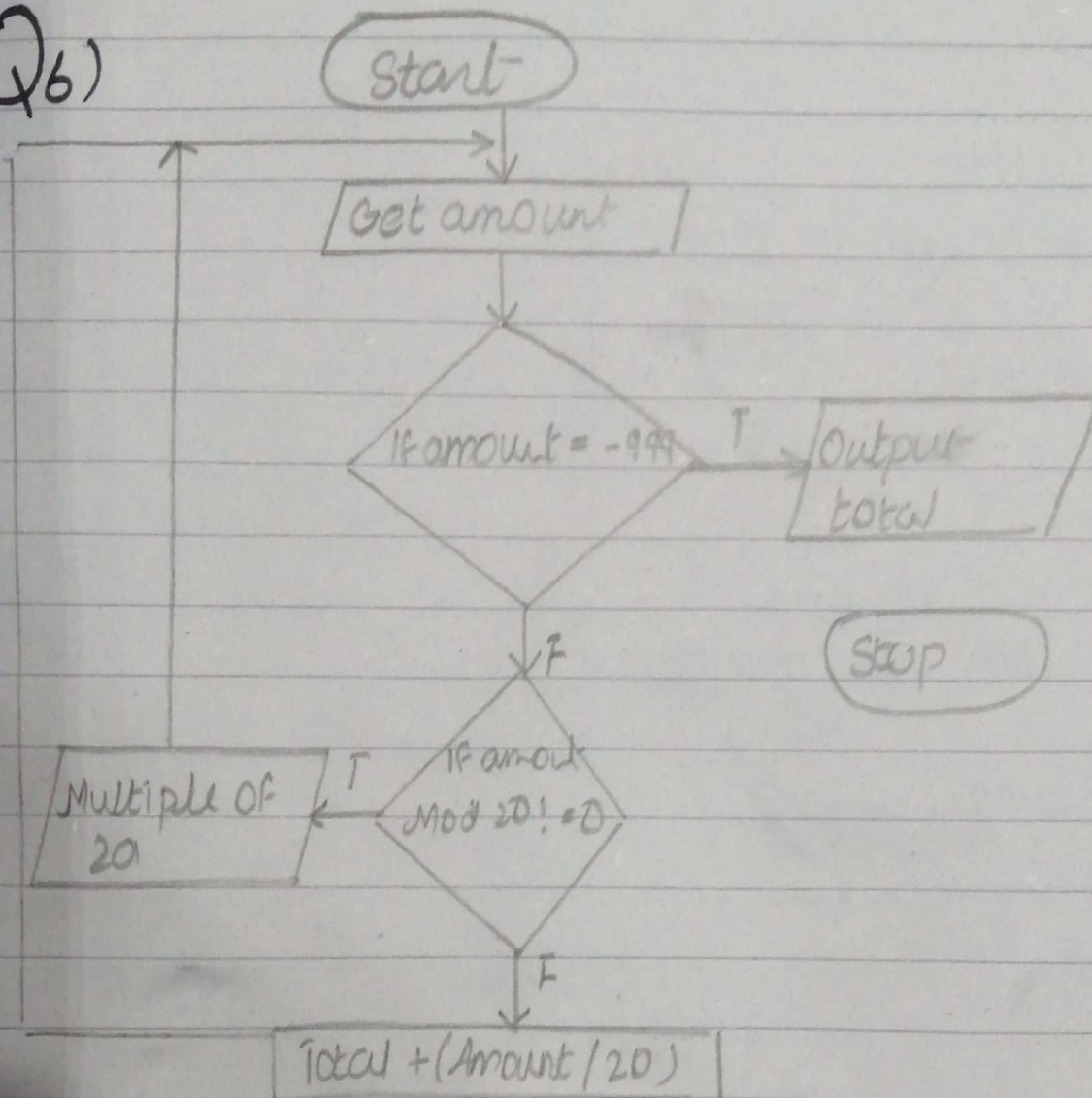   THEN Print op 1 *op2
ELSE IF o == "/"
  THEN IF op 2 ! = 0
    THEN Print op1/op2
ELSE print "Invalid operation
Stop

Q6)

```
                    ( Start )
                        |
                        v
            +-----------------------+
            |     Get amount        |
            +-----------------------+
                        |
                        v
              /                   \
             / If amount = -999     \   T      +-----------+
             \                      /  ------> |  Output   |
              \                   /            |  total    |
                        |                      +-----------+
                        | F
                        v                      ( Stop )
                /              \
  +-------------+  T  / If amount  \
  | Multiple of | <--- \ Mod 20 != 0 /
  |     20      |       \          /
  +-------------+          \      /
                        | F
                        v
            +-------------------------+
            |  Total + (Amount / 20)  |
            +-------------------------+
```

Q6)

Start

Get amount is x

IF

x = -999

THEN end program

ELSE IF

x mod 20 != 0

THEN Output x/20

ELSE

Multiple of 20

Repeat

Stop