Exp.no:1-A

Date :29/11/2022

ELECTRIC BILL CALCULATION

AIM:

To draw the flow chart and write the algorithm for calculating electricity bill.

ALGORITHM:

Step 1: Start

Step 2:Enter unit consumed N.

Step 3:Check for condition N>500 If true

3.1:Calculate E.C using formula.FC=75,DC=100,EC=(400*4.5)+(N-500)*6

3.2:Calculate the total charges=FC+DC+EC

3.3:Display the amount need to pay and go to stop

Step 4:Check the condition 200<N<=500 If true

4.1: Calculate E.C using formula.FC=30,DC=48,EC=(100*2)+(N-100)*3.5

4.2:Calculate the total charges=FC+DC+EC

4.3:Display the amount need to pay and go to stop

Step 5:Check the condition 100<N<=200 If true

5.1: Calculate E.C using formula.FC=20,DC=18,EC=(N-100)*1.5

5.2:Calculate the total charges=FC+DC+EC

5.3:Display the amount need to pay and go to stop

Step 6:Check the condition N<=100 If true

6.1: Calculate E.C using formula.FC=0,DC=0,EC=0

6.2:Calculate the total charges=FC+DC+EC

6.3:Display the amount need to pay and go to stop

Step 7:Stop

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Pseudo code

START

ENTER unit consumed N

IF (N>500)

THEN

CALCULATE EC = (400*4.5) + (N-500) *6, FC =75, DC=100

CALCULATE the total charge = FC+DC+EC

DISPLAY the amount

ELSE

STOP

IF (200<n<=500)

THEN

CALCULATE EC = (100*2) + (N-100) *3.5, FC = 30, DC = 48

CALCULATE the total charge = FC + DC + EC

DISPLAY the amount

ELSE

STOP

IF (100< N < = 200)

THEN

CALCULATE EC = (N-100) * 1.5, FC = 20, DC = 18

CALCULATE the total charge = FC + DC + EC

DISPLAY the amount

ELSE

STOP

IF (N<=100)

CALCULATE EC = 0, FC = 0, DC = 0

CALCULATE the total charge = FC + DC + EC

DISPLAY the amount

ELSE

STOP

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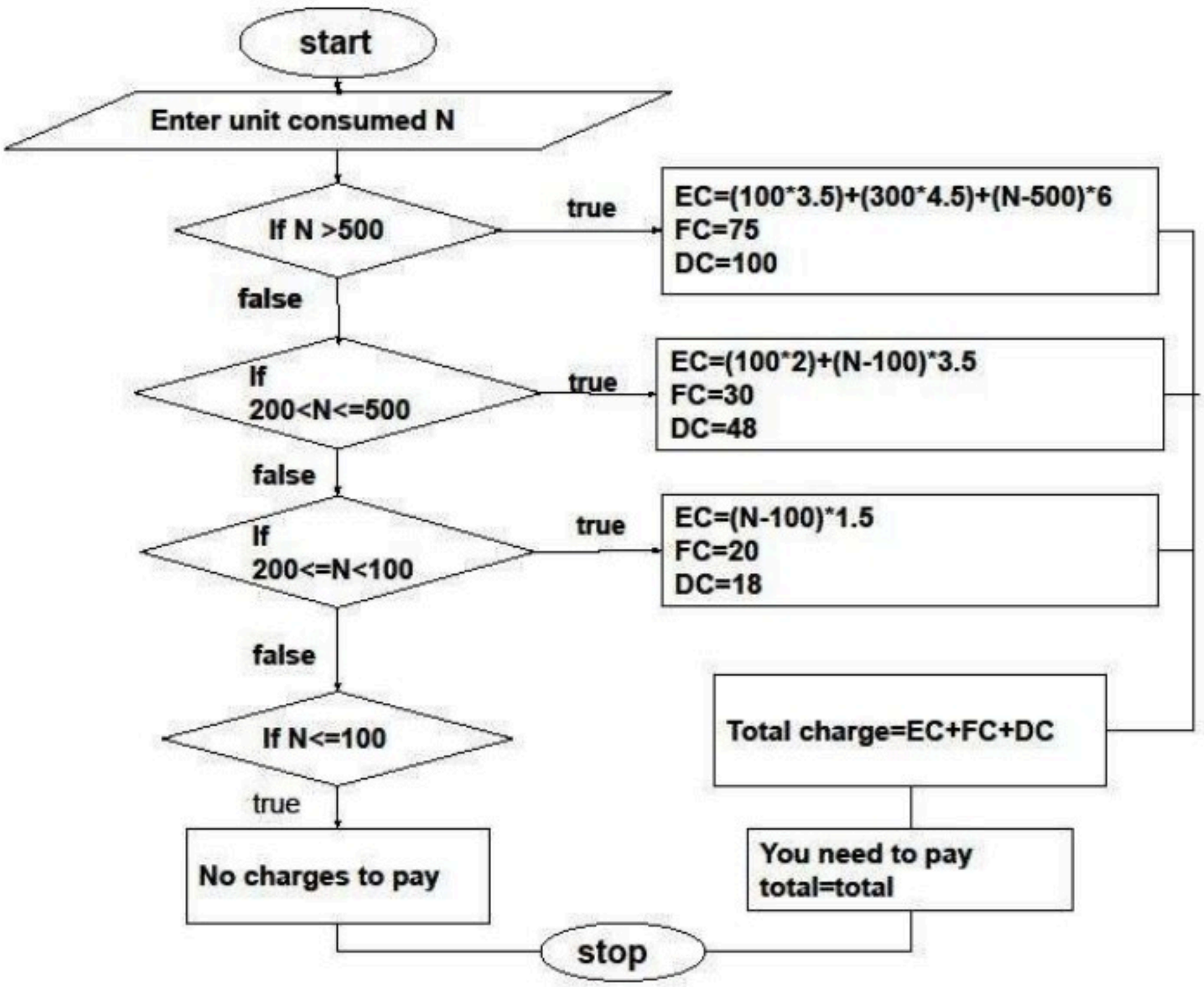

RESULT:

Thus the flowchart and algorithm is written for the given problem.

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