

1.CALCULATING ELECTRICITY BILL

Name :Mathesh

Roll NO:22CSEA44

Aim

To draw algorithm and flowchart and calculating Electricity bill

ALGORITHM

Step1:start

Step2:Enter the this month unit, previous month unit

Step3:unit =This month unit -previous month unit

Step4: check unit <=100,if true,no amount to pay,else move to next step

Step5:Check unit >100 && unit <=200,if true,print the process of condition

Step6: check unit>200&&unit<=400,if true,print the process of that condition

Step7: check unit>400,if true,print its process

Step8:Total amount =amount

Step9:print total amount

Step10:stop

Flow chart

Start

Read the value of this
month, previous month
unit

Unit=This month unit -previous month unit

Unit<=100

Yes

Amount=0

No

Unit>100&&u
nit<=200

Yes

Amount=(unit-100)*1.5

No

Unit>200&&u
nit<=400

Yes

Amount=((unit-100)*1.5)+((unit-200)*3.5)

No

Unit>400

Yes

Amount=((unit-100)*1.5)+((unit-200)*3.5)+((unit-400)*4.5)

No

Print amount=amount

Print total
amount

Stop

2.COMplete ELECTRICAL CURRENT IN 3 PHASE AC CIRCUIT

Name:M.Mathesh

Roll no:22CSEA44

AIM

To draw flowchart and write algorithm for compute electrical current in 3 phase AC circuit

Algorithm

Step1:start

Step2:Read the value of kw,v

Step3:To find the I calculate $(1000 * kw) / (1.732 * v)$

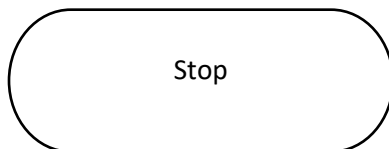
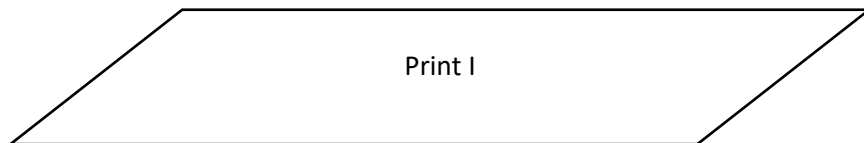
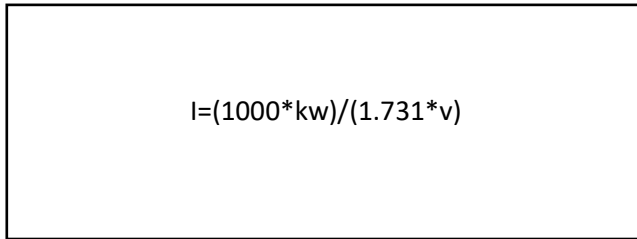
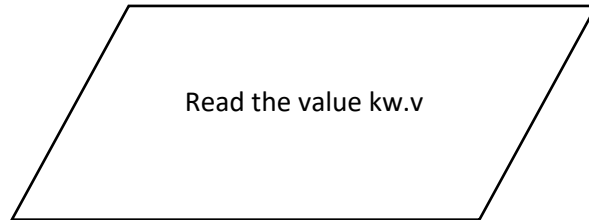
Step4: display the value I

Step4:stop

Flowchart

Formula : $kw = (v * I * PF * 1.732) / 1000$

To find $I = 1000 * kw / 1.732 * v$



3.SINE SERIES

Name :M.Mathesh

Roll no:22CSEA44

AIM

To draw flowchart and write algorithm for calculating sine series

ALGORITHM

Step1 : Start

Step2 :Get the number of items

Step3 :initialize $i=1$, $series=z$

Step4:If $i \leq n$ $Sum=[(-1)**i]+[**(2i+1)/(2i+1)!$

4.1: $series=series+sum$

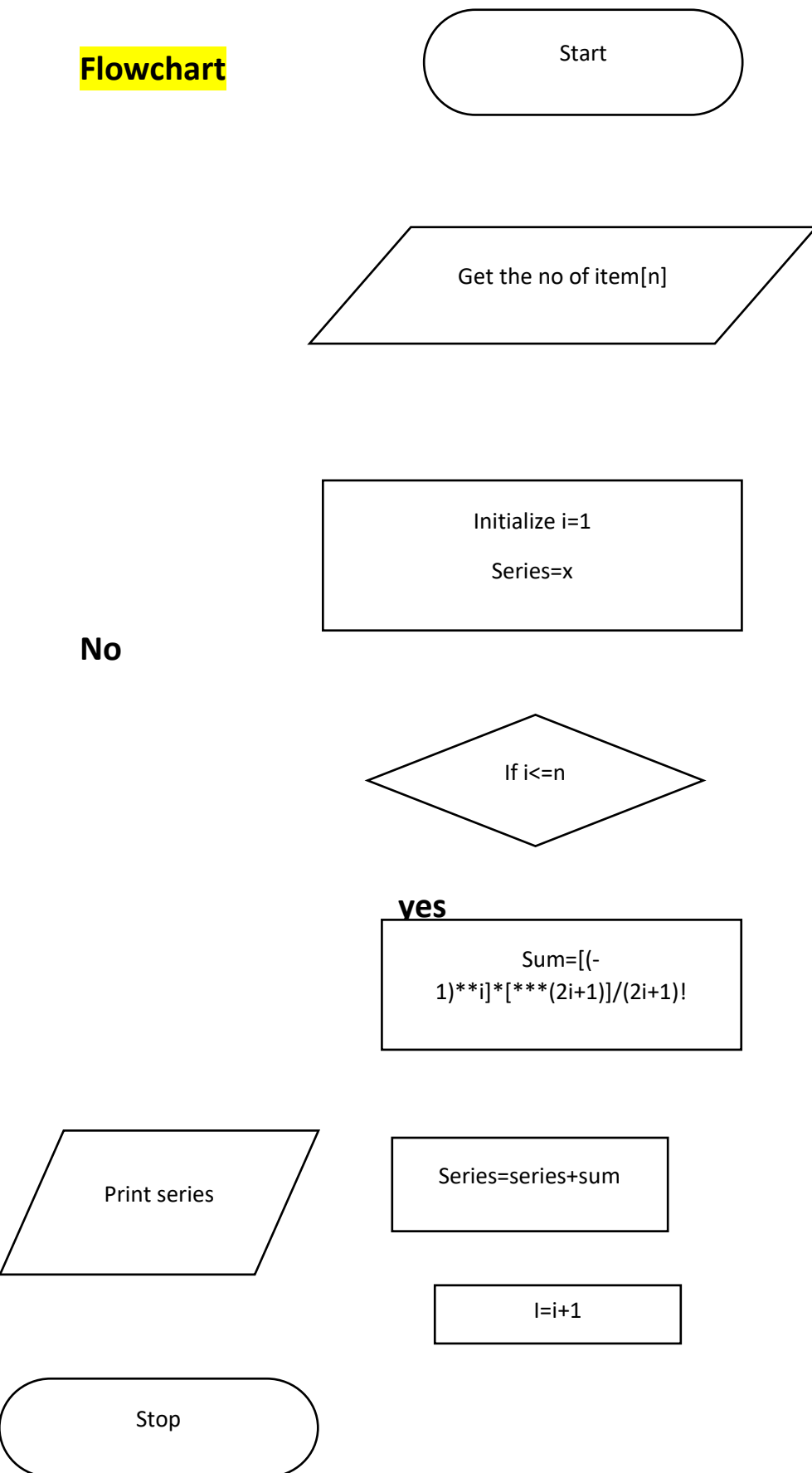
4.2: Increment i value by $(i=i+1)$ go to step4

Step5:if condition is false

Step6:print series

Step7:stop

Flowchart



4. CALCULATE THE RATAIL SHOP BILLING

Name:M.Mathesh

Roll no:22CSEA44

AIM

To draw flowchart and write algorithm for calculate the RATAIL shop billing

Algorithm

Step1:start

Step2:read the bill number

Step3:enter the customer name address

Step4:get the total number of item purchased:N

Step5:If N=0;yes:5.1,5.2;No go to step 6

5.1:sum =0

5.2:go to step 8

Step6: initialize i=1,sum=0

Step7:if i<=N;yes=move to further step; no go to step8

7.1:read the value of product v

7.2:sum=sum+v

7.3: increment of i i++

Step8:if sum >2000 yes go to 8.1 No go to step 9

8.1 :sum X 0.20=D.A(Discount amount)

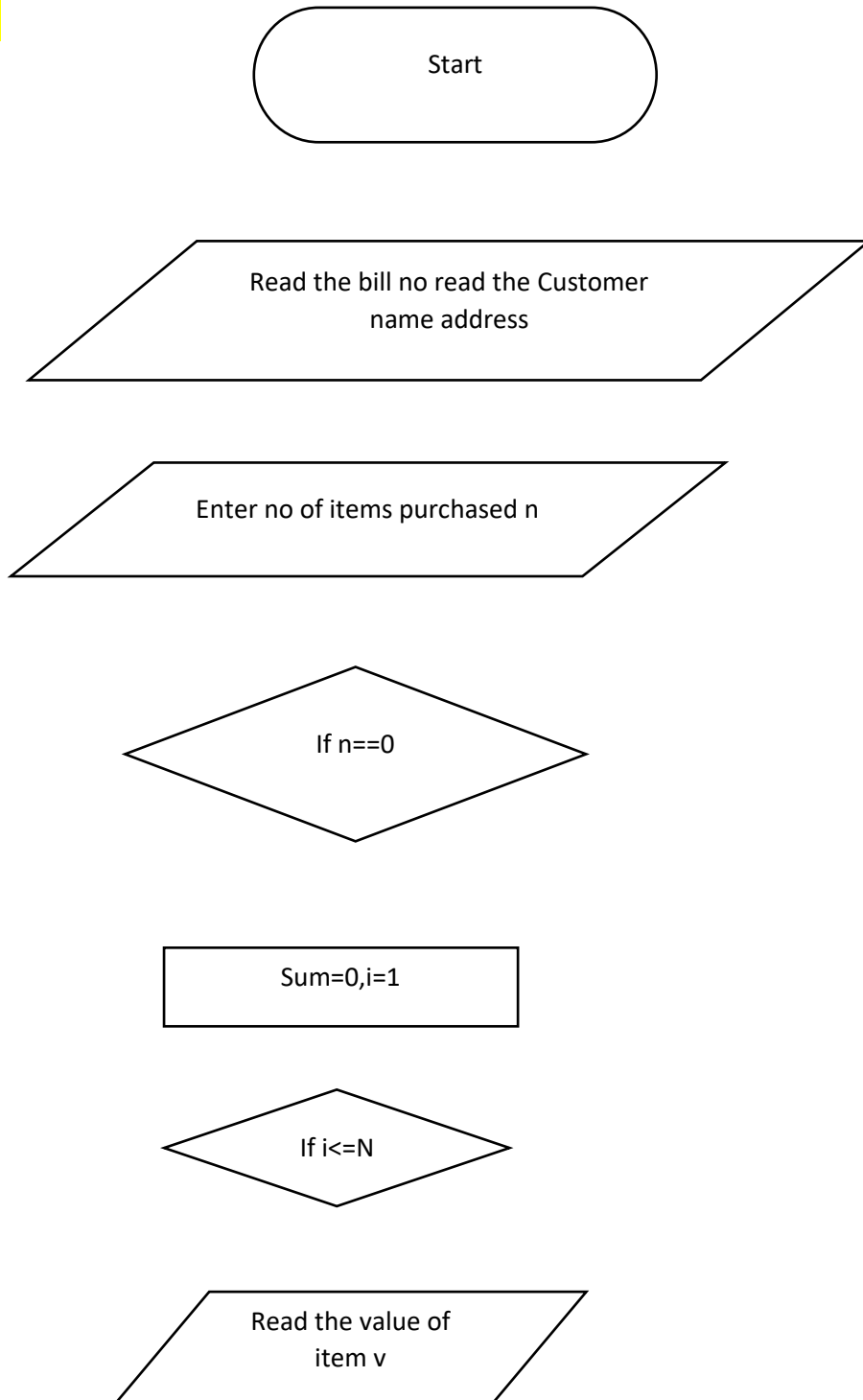
8.2:total amount=sum-D.A

8.3: print total amount

Step9: print sum

Stop10:stop

Flowchart



Sum=sum+v

i++

If sum>2000

D.A =sum*0.20

Total amount=sum

Total amount=sum-D.A

Print total amount

Print total amount

Stop

5.CALCULATING WEIGHT OF MOTER BIKE

Name:M.Mathesh

Roll no :22CSEA44

AIM

To draw flowchart and write algorithm to calculating weight of meter bike

Algorithm

Step1:start

Step2:get the tybe of motercycle M

Step:based on type M choose weight as

Step3:based on type M choose weight as

3.1:if M=Chopper,W= 317kg

3.2:if M=Bobber,W=306kg

3.3:if M=cruiser,W=256kg

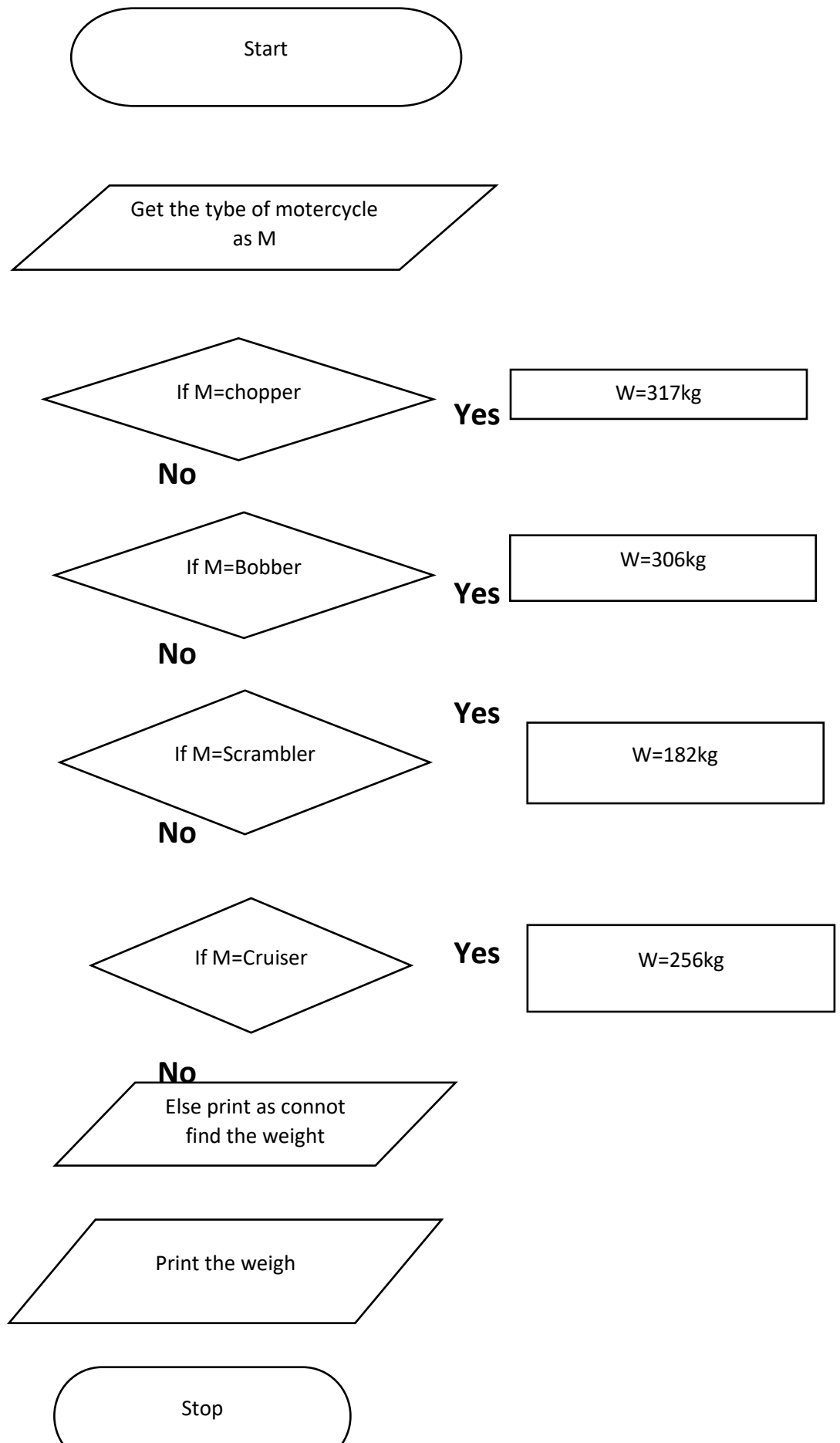
3.4:if M=scramber,W=182kg

Step4:else print as cannot find the weight

Step5:print the weigh

Step6:stop

Flowchart



6.WEIGHT OF STEEL RODS

Name:M.Matheah

Roll no:22CSEA44

AIM

To draw flowchart and write algorithm for calculate the of steel rods

Algorithm

Step1:start

Step2:Enter the Number of rods (N.R)

Step3:If N.R==0,Yes 3.1,3.2 no go to step 4

3.1:total weight is 0

3.2:go to step 6

Step4: Initialize total weight is 0,i=1

Step5:if N.R>=1,yes go to 5.1 no-go to step 6

5.1:read the value D,L

5.2 : $W = ((D * D) * L / 162)$

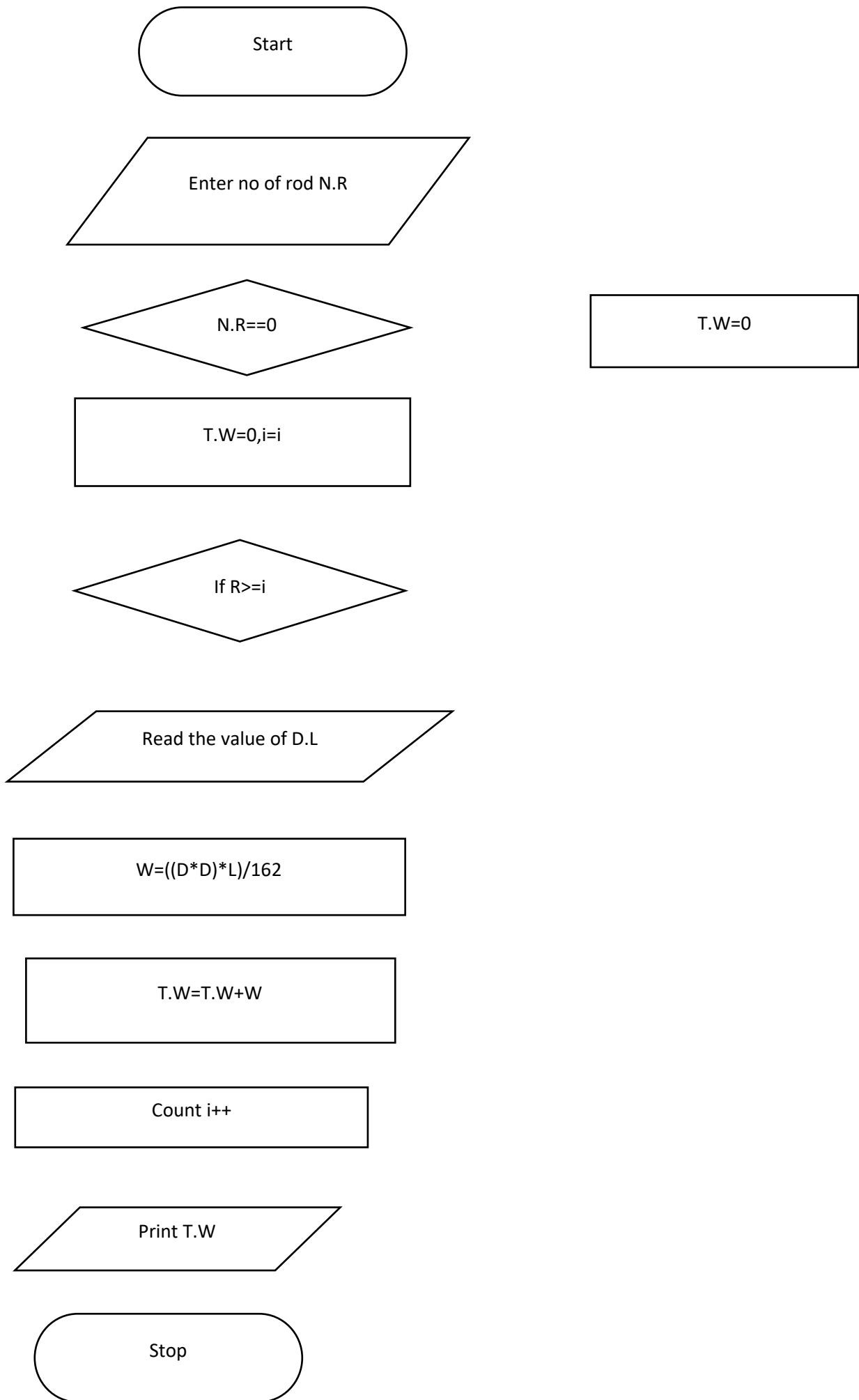
5.3:Total weight=total weight + W

5.4: increment I,i++

Step6:print total weight

Step7:stop

Flow chart



7.CALCULATING STUDENTS GRADE ANALYSIS

Name:M.Mathesh

Roll no:22CSEA44

AIM

To draw flowchart and write algorithm for calculating students grade analysis

Algorithm

Step1:start

Step2:read the number of students as N

Step3: initialize i;i=1

Step4:if $i \leq N$ true go to step5, false go to step15

Step5:Read the marks m_1, m_2, m_3 , & name of students

Step6:total= $m_1 + m_2 + m_3$

Step7: average=total/3

Step8:if average ≥ 90 & average ≤ 100 ;yes go to step 8.1, no go to step 9

8.1: grade=0

Step9:If average ≥ 75 & avg < 90 ;yes go to step 9.1,go to step10

9.1 grade=A

Step10:if average ≥ 50 & average < 75 ; yes go to step10.1,no go to step11

10.1: Grade=B

Step11:if average ≥ 35 & average < 50 ;yes go to step11.1,no go to step12

11.1:Grade=C

Step12:if average<35;yes go to step12.1 ,no go to step13

12.1:Grade=D

Step13: increment i,i++

Step14:print the name & grade

Step15:stop

Flowchart

