1. CALCULATING ELECTRICITY BILL

FLOWCHART

Unit=this month unit-premonth unit

Read the value of this month unit,pre-month unit

START

T

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

D.C=48 ,F.T.C=30

Amount=(unit-100)\*1.5

D.C=18,F.T.C=20

Amount=0

F.T.C=0,D.C=0

If unit<=100

If unit >200 and

Unit<=400

If unit>100

And

Unit <=200

T

F

T

F

T

T

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

D.C=100,F.T.C=75

If unit>400

F

stop

Print total amount

Total amount=amount+F.T.C+D.C

ALGORITHM

Step 1:start

Step 2:enter the this month unit,premonth unit

Step 3 :unit=this month unit-premonth unit

Step 4:check unit<=100,if true no amount to pay else move to next step

Step 5:check unit>100 and unit<=200,if true,print the process of condition

Step 6:check unit>200 and unit<=400 if true,print the process for that condition

Step 7:check unit>400,if true,print it’s process

Step 8:total amount=amount

Step 9:print total amount

Step 10 :stop

PSEUDO CODE

BEGIN

GET this month unit,previous month unit

Unit=this month unit-premonth unit

CHECK unit<=100,IF trur no amountto pay ELSE move to next step

CHECK unit>100 and unit<=200,IF true,print the process of condition

CHECK unit>200 and unit <=400 IF true,print the process of that condition

CHECK unit>400,IF true,print it’s process

Total amount=amount

Print total amount

END

2.SINE SERIES

FLOWCHART

START

Sum=((-1)\*\*i)\*(x\*\*(2i++))/(2i+1)

If i<=n

Initialize i=1,

Series=x

Get the no.of.items(n)

no

yes

Series=series+sum

Print series

i=i+1

stop

ALGORITHM:

Step 1:start

Step 2:get the number of items as n

Step 3:initialize i=1,and series=x

Step 4:if i<=n,yes goto step 4.1,4.2,4.3else go to step 5

4.1:sum=((-1)\*\*i)\*(x\*\*(2i+1)!)

4.2:series=series+sum

4.3:increament, i value by 1

Step 5:print series

Step 6:stop

PSEUDO CODE

BEGIN

GET n

INITIALIZE i=1,series=x

IF i<=n,TRUE then

COMPUTE sum=((-1)\*\*i)\*(x\*\*(2i+1))/(2i+1)!

Series =series +sum

INCREAMENT i value by 1

DISPLAY series

END

3.COMPUTE ELECTRICAL CURRENT IN 3 PHASE AC CIRCUIT

FLOWCHART

START

stop

Print i

I=(1000\*KW)/(1.732\*V)

Read the value KW,V

ALGORITHM

Step 1:start

Step 2:read the value of K.W,V

Step3:to find the I,calculate(1000\*KW)/(1.732\*v)

Step4:display the value I

Step 5:stop

PSEUDO CODE

BEGIN

GET KW,V

FOR I, COMPUTE(1000\*KW)/(1.732\*V)

DISPLAY I

END

4.WEIGHT OF STEEL RODS

FLOWCHART

start

Count i++

T.W=T.W+W

W=((D\*D)\*L)/162

Read the value of D.L

If R>=i

T.W=0,i=1

T.W=0

If N.R=0

Enter no.of.rod=N.R

T

F

F

T

Print T.W

STOP

ALGORITHM

Step 1:start

Step 2: enter the number of rods(N.R)

Step 3:if NR=0,yes=3.1,3.2,no:goto step 4

3.1:total weight is 0

3.2:goto step 6

Step 4:initialize total weight is 0,i=1

Step 5:if N.R>=I,yes,move to 5.1,no,goto 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:increament i,i++

Step 6:print total weight

Step 7:stop

PSEUDO CODE

BEGIN

GET no.of.rods(N.R)

IF NR=0 TRUE then

Total weight =0

Print total weight

ELSE

INITIALIZE Total weight=0,i=1

IF N.R>=i TRUE then

READ D,L

W=((D\*D)\*L)/162

Total weight=total weight+W

INCREAMENT i,i++

ELSE

DISPLAY total weight

END

5.CALCULATE THE RETAIL SHOP BILLING

FLOWCHART

start

If i<=n

Sum=0,i=1

Sum=0

If N=0

Enter no.of.items purchased:N

Read the bill.no ,read the customer name,address

T

F

F

T

Read the value of item:V

Sum=sum+V

ALGORITHM

Step 1:start

Step 2: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 goto step 6

5.1:sum=0

5.2:goto step 8

F

T

stop

Print total amount

Total amount=sum

Print total amount

Total amount =sum-D.A

D.A=sum\*0.20

If sum>2000

i++

Step 6:initialize i=1,sum=0

Step7:if i<=N;yes:move to further step ;no:goto step 8

7.1:read the value of product

7.2:sum=sum+v

7.3:increament of I,i++

Step 8:if sum>2000,yes:8.1,no:step 9

8.1:sum\*0.20=D.A(discount amount)

8.2:total amount=sum-D.A

8.3:print total amount and step2,3

Step 9:print sum

Step 10:stop

PSEUDOCODE

BEGIN

GET bill number

INPUT customer name,address

GET total number of item purchased:N

IF N=0 TRUE THEN

SUM=0

GOTO IF sum>2000….

ELSE

INITIALIZE i=1,sum=0

IF i<=N;TRUE then

GET VALUE OF PRODUCT:V

Sum=sum+V

INCREAMENT of i;i++

ELSE

IF sum>2000,TRUE Then

Sum\*0.20=D.A(Discount amount)

Total amount=sum-D.A

DISPLAY sum GOTO get bill no and input customer name,address

DISPLAY sum

END

6.CALCULATING WEIGHT OF MOTOR BIKE

FLOWCHART

START

T

F

F

T

F

T

F

T

W=182kg

If M=scrambler

W=256kg

If M=cruisen

W=306kg

If M=

bobber

W=317kg

If M=

chopper

Get the type of motorbike as M

Print the weight

Else print as cannot find the weight

stop

ALGORITHM

Step 1:start

Step 2:get the type of motor cycles:M

Step 3: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=cruisen,=W=256kg

3.4:if m=scrambler,W=182kg

Step 4:else print as can’t find the weight

Step 5:print the weight

Step 6:stop

PSEUDOCODE

BEGIN

INPUT type of motorcycles:M

Based on M choose weight

IF M=chopper ,w=317 kg

IF M= bobber,W=306kg

IF M=cruisen,W=256kg

IF M=scrambler,w=182kg

DISPLAY weight

ELSE

DISPLAY can’t weight

END

7.CALCULATING STUDENTS GRADE ANALYSIS

FLOWCHART

START

F

T

T

F

Enter the no.of.students=N

Grade=O

If avg>=90 and

Avg<=100

Avg=total/3

Total=m1+m2+m3

Read marks m1,m2,m3 and name

If<=N

i=1

T

F

T

F

T

F

T

F

Grade=A

If avg>=75andavg<90

stop

Print name ,grade

i+=1

Grade=D

If avg<35

Grade=C

Grade=B

If avg>=35 and avg<50

If avg>=50 and avgavg<75

ALGORITHM

Step 1:start

Step 2:read the number of nstudents as N

Step 3:initialize i;i=1

Step 4:if i<=N;TRUE=goto step 5;FALSE:goto step 15

Step 5:read the marks m1,m2,m3 and name of students

Step 6:total=m1+m2+m3

Step 7:average=total/3

Step 8:if avg>=90 and avg<=100;yes:8.1;no:goto step 9

8.1:grade=O

Step 9:if avg >=75 and avg<90;yes:9.1;no:goto step 10

9.1:grade=A

Step 10:if avg>=50 and avg<75;yes:10.1;no:goto step 11

10.1:grade=B

Step 11:if avg >=35 and avg<50;yes:11.1;no:goto step 12

11.1:grade=C

Step 12:if avg <35 ;yes:12.1;no:goto step 13

12.1:grade=D

PSEUDOCODE

BEGIN

GET no.of.students(N)

INITIALIZE i;i=1

IF i<=N;TRUE:goto get mark…

FALSE:END

GET marks m1,m2,m3 and name of students

Total=m1+m2+m3,average=total/3

IF avg>=90 ang avg <=100 TRUE THEN

Grade=O

ELSE

COMPARE with if avg>=75 and avg<90 TRUE THEN

Grade=A

ELSE

COMPARE with IF avg>=50 and avg<75;TRUE THEN

Grade=B

ELSE

COMPARE with IF avg>=35 and avg<50;TRUE THEN

Grade=C

ELSE

COMPARE with IF avg<35;TRUE THEN

Grade=D

ELSE

INCREAMENT i;i+=1

DISPLAY name and grade

END