Question No.1

Pseudo code:

1) Start
2) Display “Enter user”
3) Input User
4) If (User==0)

5.1)Display “enter name, user_name,mobile_number,email_address,password.

5.2)Input name, user_name,mobile_number,email_address,password.

6) if(User!=0)

6.1) Display”enter your name and password”.

6.2) Input name,password.

7)Display “cart_review_page”

7.1) set product_information= productid,productName,productprice

7.2) Display product_information

8) Display “Enter shipping address”.

9)Input shipping_address

10)Display “enter shipping method”

11)Input shipping_method

12)if(shipping_method==0)

12.1)Display “shipping method is standard”

13)if(shipping_method!=0)

13.1Display”shipping method is expert delivery”.

14)Display “Enter Payment method”

15)Input payment_method

16)if(payment_method>=0)

16.1)Display “payment method is credit card”

16.2) Set payment_method=credit_card

16.3)Input credit_Card_Number,expiration_date,CVC.

17)if(payment_method<0)

17.1)Display “payment method is cash”

17.2)set payment method =cash

18)Display “Are you sure to place the order”

19)Input order_confirnmed

20)if(order_confirmed==0)

20.1) Set order_confirmed= “yes”

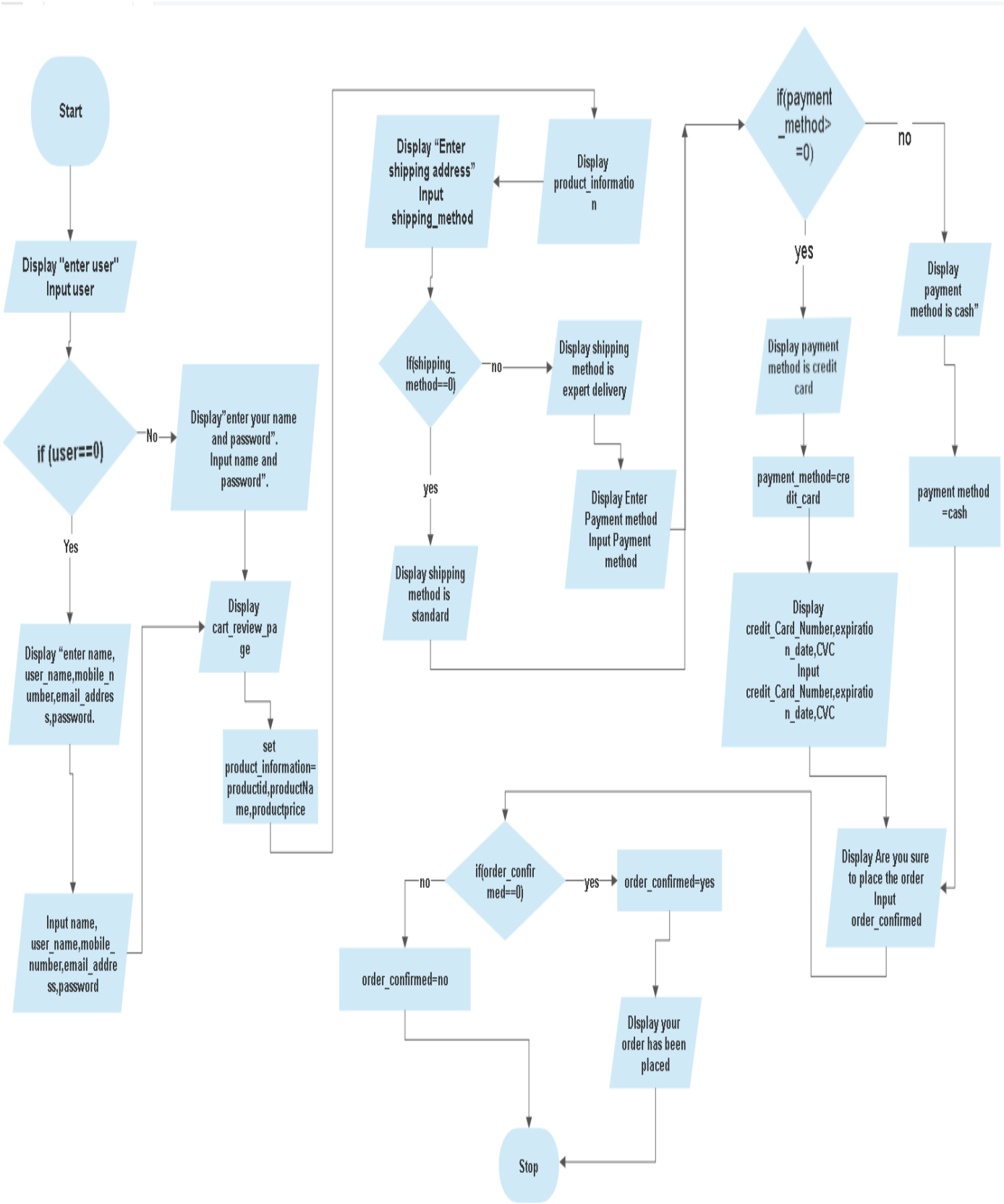
20.2)Display “your order has been placed”

21)if(order_confirmed!=0)

21.1) Set order_confirmed= “no”

22) Stop

Flowchart



Question No.2

Pseudo Code

1) Start
2) Display “Enter Credit Score(CS),monthly income(MI),Loan Amount(LA)”
3) Input Credit Score(CS),monthly income (MI),Loan Amount(LA)
4) if(CS>=700)

4.1) if(MI>=500)

4.1.1) if(LA<=5000)

4.1.2) set LA= “approved”

4.1.3) Display “Loan Amount Descision:LA”

4.2)if(MI<500)

4.2.1) set LA = “denied”

4.2.2) Display “Loan Amount Descision:LA”

4.3) if(LA>5000)

4.3.1) set LA = “denied”

4.3.2) Display “Loan Amount Descision:LA”

5) if(CS<700)

5.1) set LA = “denied”

5.2) Display “Loan Amount Descision:LA”

5.3) Stop

Question No.3

Pseudo Code

1) Start

2) Display “Menu”

“Snacks”	“Prices”
“Lays”	“Rs 30”
“Juice”	“RS 20”
“Drinks”	“Rs 100”

3) Set selected snack= “lays”, “juice”, “Drink”

4) Display “enter money”

4.1) Input money

5) Set total amount = 0

6) Display “Enter quantity of lays”

6.1) Input q1

7) Display “Enter quantity of juice”

7.1) Input q2

8) Display “Enter quantity of drinks”

8.1)Input q3

9) Set total amount = q1 *30 + q2*20 +q3*100

10) if(money>= total amount)

10.1) Display snacks

10.2) set Change = money-total amount

10.3) Display Change

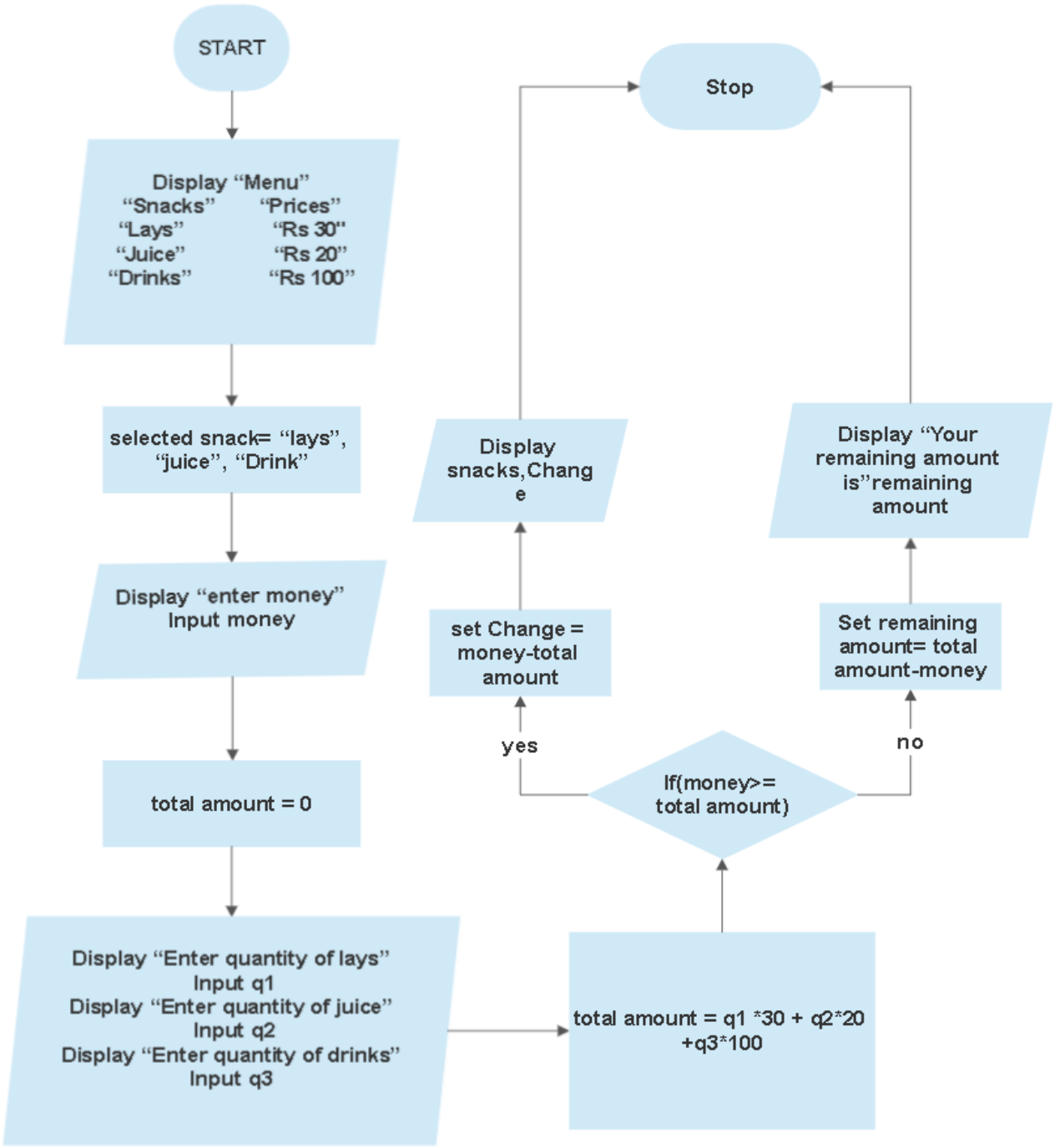
11)if(money<total amount)

11.1) Set remaining amount= total amount-money

11.2)Display “Your remaining amount is”remaining amount

11.3) Stop

Flowchart



Question No.4

Pseudo code

1) Start
2) Display “Enter No of days books overdue”
3) Input days
4) If(days>=1)&&(days<=7)

4.1) Set late fee= days*0.25

4.2) Display late fee

5)if(days>=8)&&(days<=14)

5.1) Set days=days-7

5.2) Set late fee = (7*0.25)+(days*0.5)

5.3) Display late fee

6) if(days>=15)&&(days<=30)

6.1) Set days=days-14

6.2) set late fee=(7*0.25)+(7*0.5)+(days*1)

6.3) Display late fee

7) if(days>30)

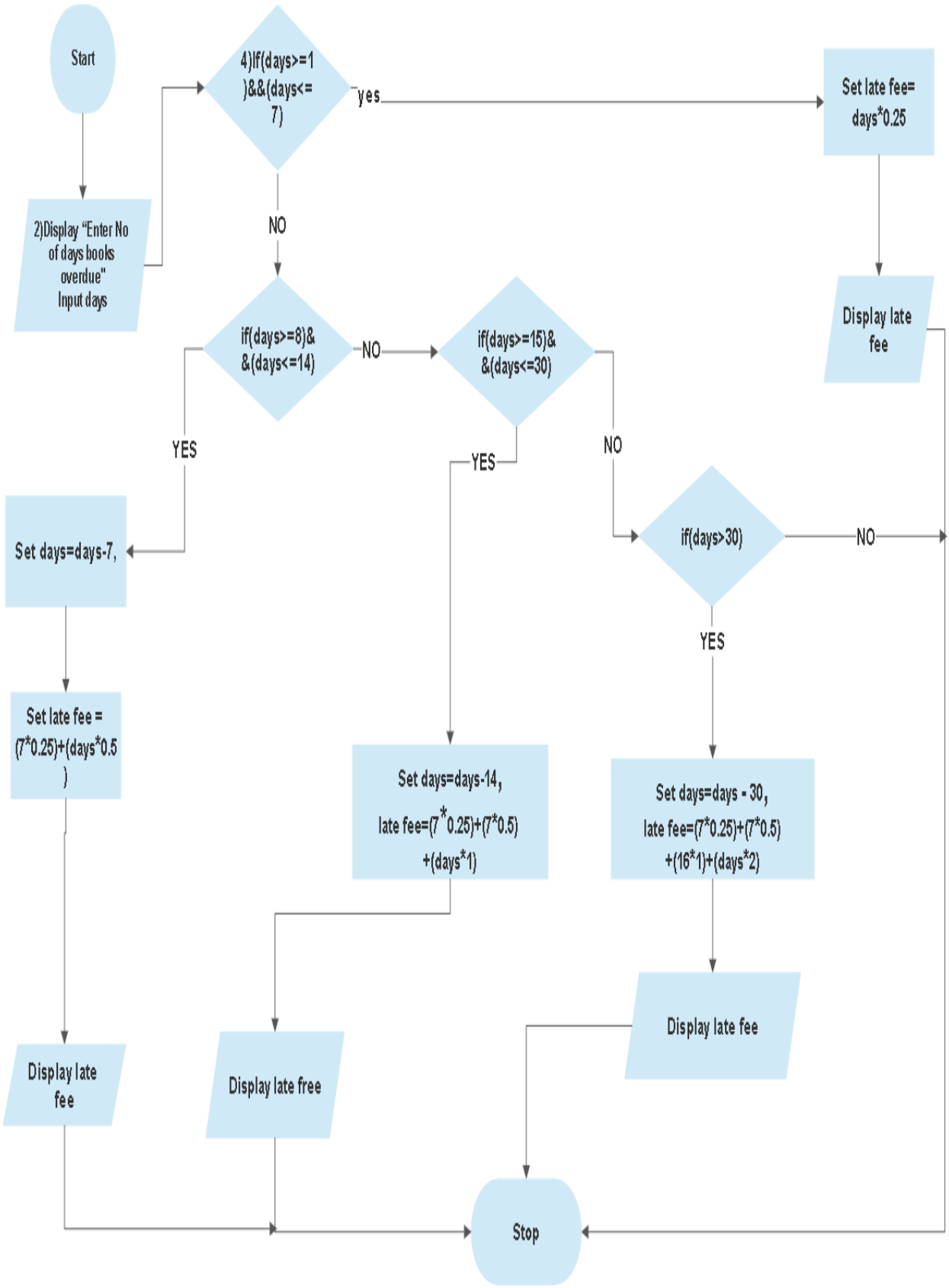
7.1)Set days=days-30

7.2)set late fee=(7*0.25)+(7*0.5)+(16*1)+(days*2)

7.3) Display late fee

8) Stop

Flowchart


Start
2)Display "Enter No of days books overdue" Input days
4)If(days>=1)&&(days<= 7)
yes
Set late fee= days*0.25
Display late fee
NO
if(days>=8)& &(days<=14)
NO
if(days>=15)& &(days<=30)
YES
Set days=days-7,
Set late fee = (7*0.25)+(days*0.5)
Display late fee
YES
Set days=days-14, late fee=(7*0.25)+(7*0.5) +(days*1)
Display late free
NO
if(days>30)
NO
YES
Set days=days - 30, late fee=(7*0.25)+(7*0.5) +(16*1)+(days*2)
Display late fee
Stop

Question No.5

FLOWCHART:

1) Stop

2) Display “Choose Coffee”

1. “Regular Coffee”

2. “Latte”

3. “Cappuccino”

3) Input no

4)If (no==1)

4.1) Display “You have choosen Regular coffe NowEnter Size”

1. “Small:$2.00”

2. “Medium:$2.50”

3. “Large: $3.00”

4.2) Input num

4.3) if(num==1)

4.3.1) Display “You have choosen small size”

4.3.2) set price = $2.00

4.4)if (num==2)

4.4.1) Display “You have choosen medium size”

4.4.2) set price=$2.50

4.5)if (num==3)

4.5.1) Display “You have choosen large size”

4.5.2) set price =$3.00

5) if (no==2)

5.1) Display “You have choosen Latte coffe NowEnter Size”

1. “Small:$3.50”
2. “Medium:$4.00”
3. “Large: $4.50”

5.2) Input num

5.3) if(num==1)

5.3.1) Display “You have choosen small size”

5.3.2) set price = $3.50

5.4)if (num==2)

5.4.1) Display “You have choosen medium size”

5.4.2) set price=$4.00

5.5)if (num==3)

5.5.1) Display “You have choosen large size”

5.5.2) set price = $4.50

6)if (no==3)

6.1) Display “You have choosen Cappuccino coffe NowEnter Size”

1. “Small:$4.00”2. “Medium:$4.50”3. “Large: $5.00”

6.2) Input num

6.3) if(num==1)

6.3.1) Display “You have choosen small size”

6.3.2) set price = $4.00

6.4)if (num==2)

6.4.1) Display “You have choosen medium size”

6.4.2) set price=$4.50

6.5)if (num==3)

6.5.1) Display “You have choosen large size”

6.5.2) set price =$5.00

7) Display “Do you want to add-ons”

1. “Yes”

2. “No”

8) Input n

9) if (n==1)

9.1) Display “Following are the add-ons ”

1. “Milk:$0.50”
2. “Sugar:$0.25”
3. “Whipped Cream:$0.75”

9.2) Input add-ons

9.3) if(add-ons==1)

9.3.1) Display “You want to add milk”

9.3.2) set price = price+0.50

9.4) if (add-ons==2)

9.4.1) Display “You want to add sugar”

9.4.2) set price = price+0.25

9.5) if (add-ons==3)

9.5.1) Display “you want to add whipped cream”

9.5.2) set price = price+0.75

10) if(n==2)

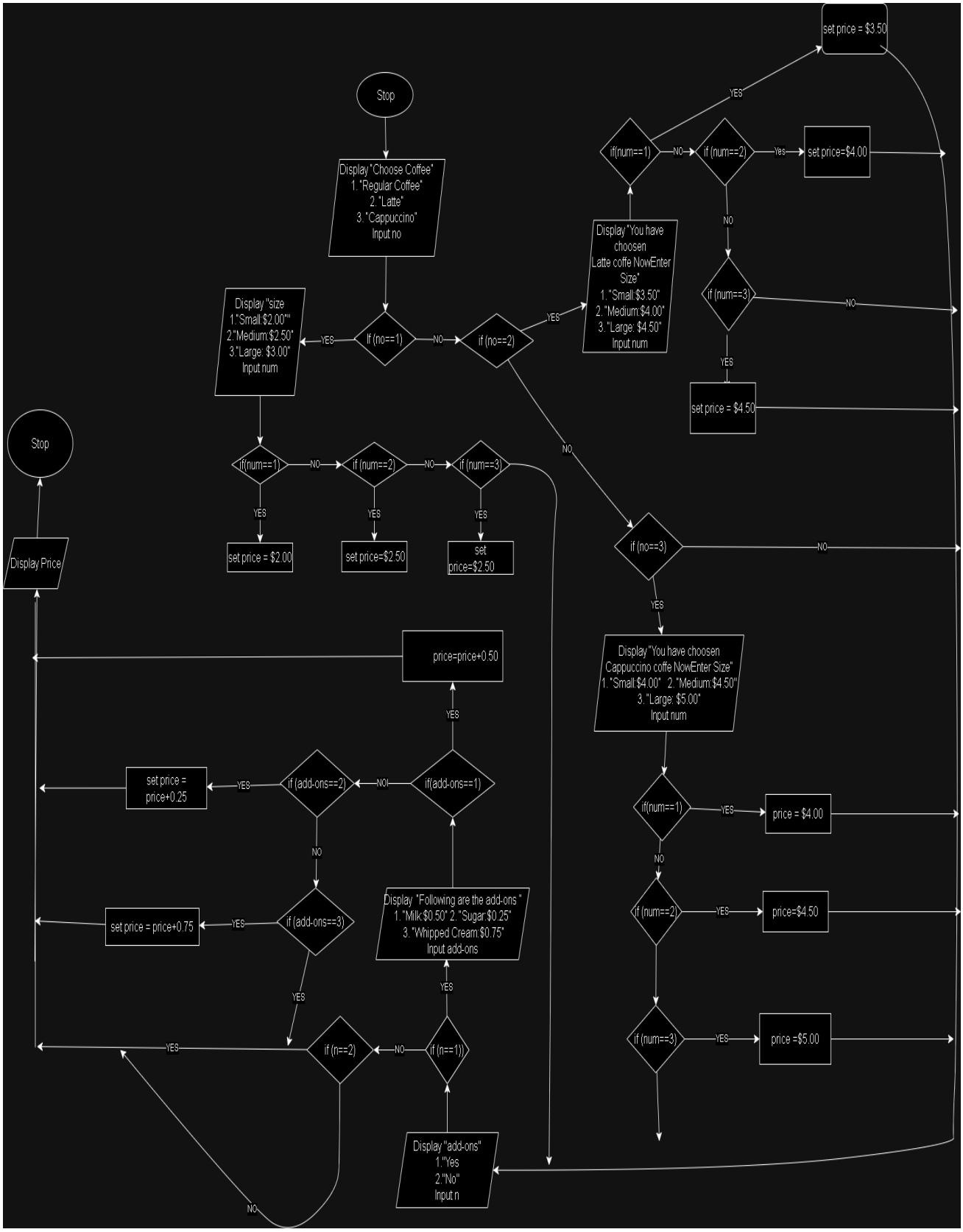
10.1) Display “Pay $”

11) Set Total_price=price

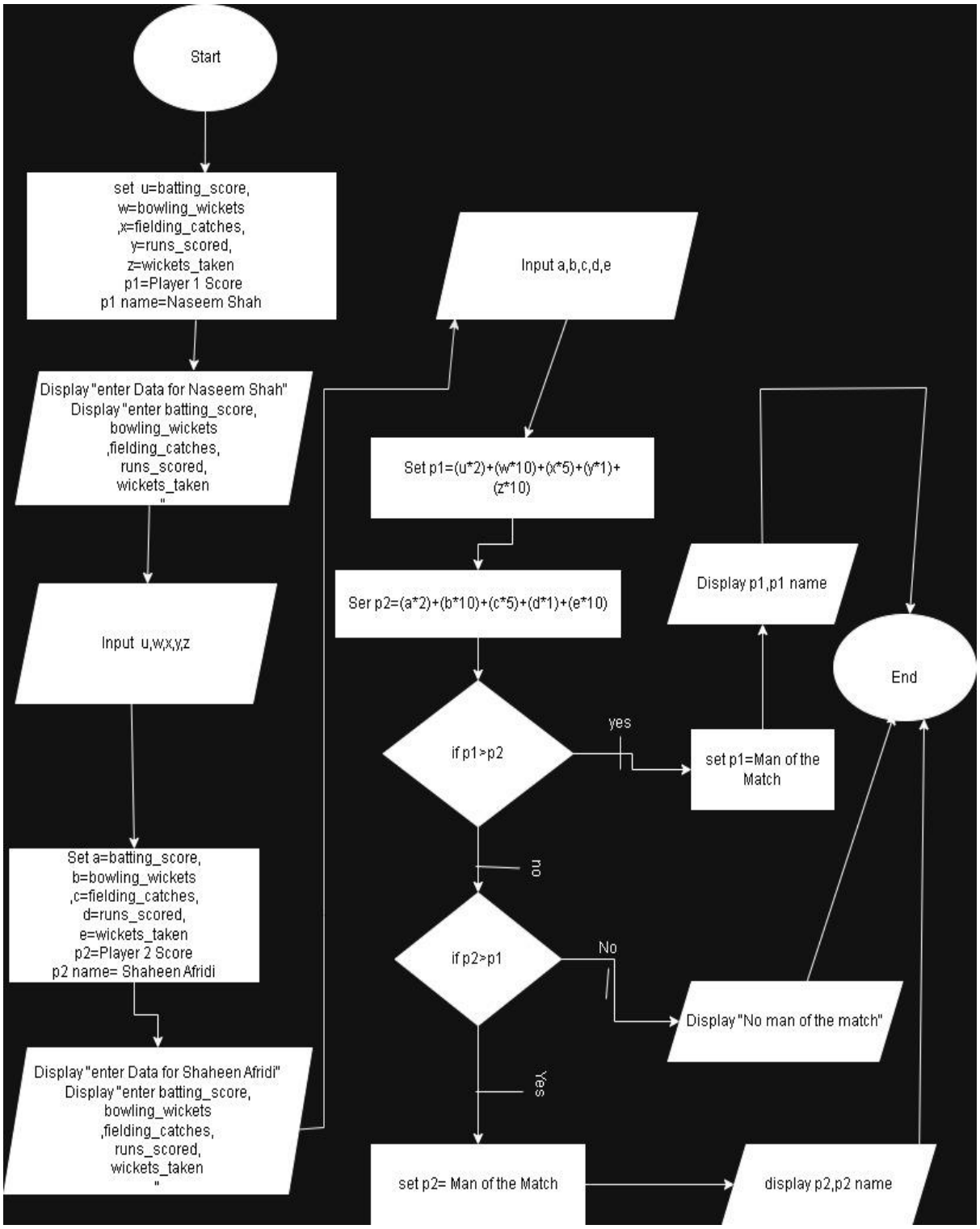
12) Display Total_price

13) Stop

Flowchart:


Stop
Display "Choose Coffee"
1. "Regular Coffee"
2. "Latte"
3. "Cappuccino"
Input no
If (no==1)
YES
NO
Display "size
1."Small:$2.00""
2."Medium:$2.50"
3."Large: $3.00"
Input num
if (no==2)
YES
Display "You have choosen
Latte coffe NowEnter
Size"
1. "Small:$3.50"
2. "Medium:$4.00"
3. "Large: $4.50"
Input num
if(num==1)
NO
YES
set price = $3.50
if (num==2)
Yes
set price=$4.00
NO
if (num==3)
NO
YES
set price = $4.50
NO
if (no==3)
NO
YES
Display "You have choosen
Cappuccino coffe NowEnter Size"
1. "Small:$4.00" 2. "Medium:$4.50"
3. "Large: $5.00"
Input num
if(num==1)
YES
price = $4.00
NO
if (num==2)
YES
price=$4.50
if (num==3)
YES
price =$5.00
Stop
Display Price
if(num==1)
NO
if (num==2)
NO
if (num==3)
YES
YES
YES
set price = $2.00
set price=$2.50
set price=$2.50
price=price+0.50
YES
if(add-ons==1)
NO
if (add-ons==2)
YES
set price = price+0.25
NO
if (add-ons==3)
YES
set price = price+0.75
YES
Display "Following are the add-ons "
1. "Milk:$0.50" 2. "Sugar:$0.25"
3. "Whipped Cream:$0.75"
Input add-ons
YES
if (n==1))
NO
if (n==2)
YES
NO
Display "add-ons"
1."Yes
2."No"
Input n

Question No.6



Question No.7 (a)

Pseudocode

1) Start

2) Display “Enter value of a, b, c”

3) Input a, b, c

4) Display “for +ve value of x is x1”

5) Set x1= -b + sqrt((b*b)-(4*a*c))

6) Set x1=x1/(2*a)

7) Display x1

8) Display “for –ve value of x is x2”

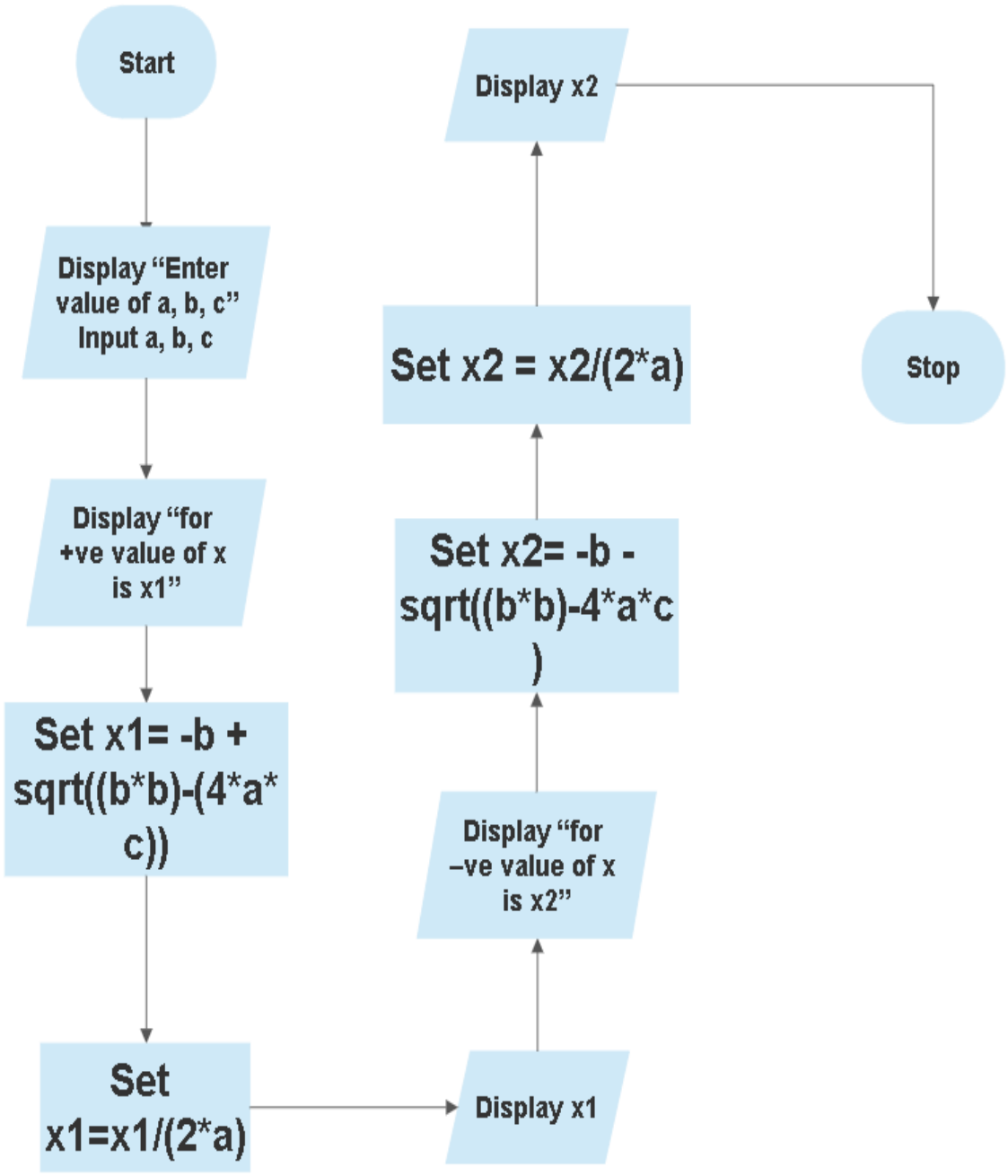
9) Set x2= -b - sqrt((b*b)-4*a*c)

10) Set x2 = x2/(2*a)

11) Display x2

12) Stop

Flowchart:



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b) Pseudo code

1) Start

2) Display “Enter weight, height”

3) Input height, weight

4) Set BMI= weight/(height*height)

5) Display BMI

5) if (BMI<18.5)

5.1) Display “Underweight”

6) if (BMI>=18.5)&&(BMI<=24.9)

6.1) Display “Normal weight”

7) if (BMI>=25)&&(BMI<=29.9)

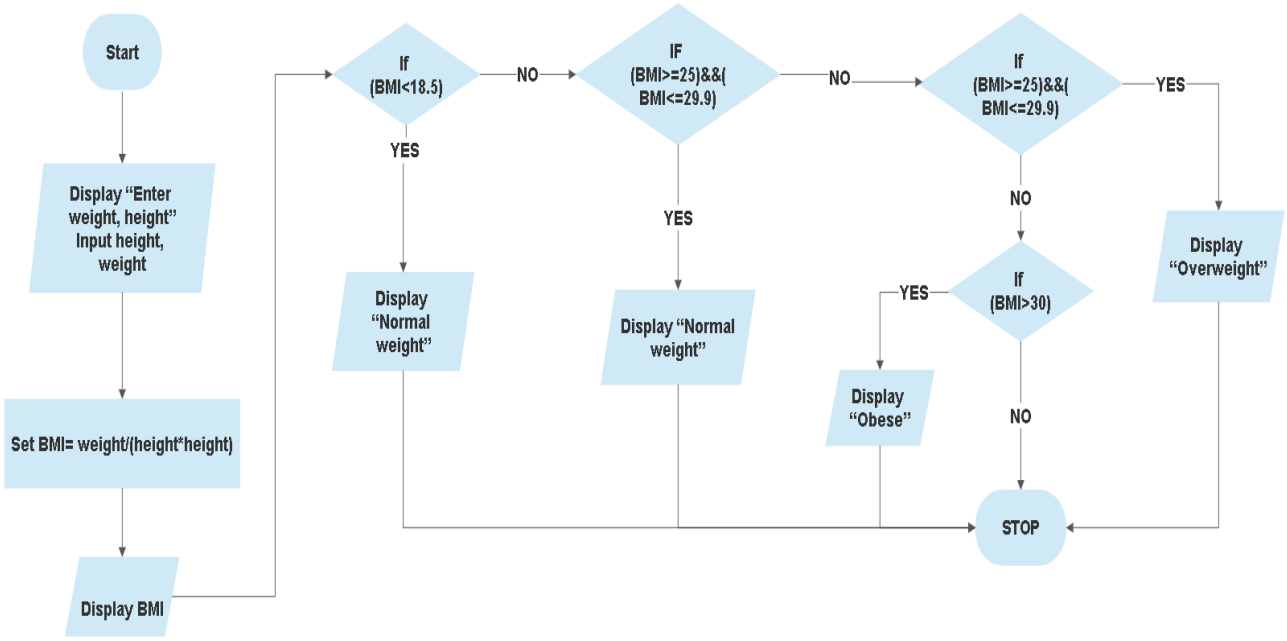
7.1) Display “Overweight”

8) if (BMI>30)

8.1) Display “Obese”

9) Stop

b) Flowchart



Question No.8

Pseudo code

1) Start
2) Set shares = 900
3) Set share price=shares*49.50
4) Commission = share price * 0.03
5) Set shares sold = 1000
6) Set sold price = shares sold*56.90
7) commission = sold price*0.01
8) Display share price
9) Display Commission
10) Display sold price
11) Display commission

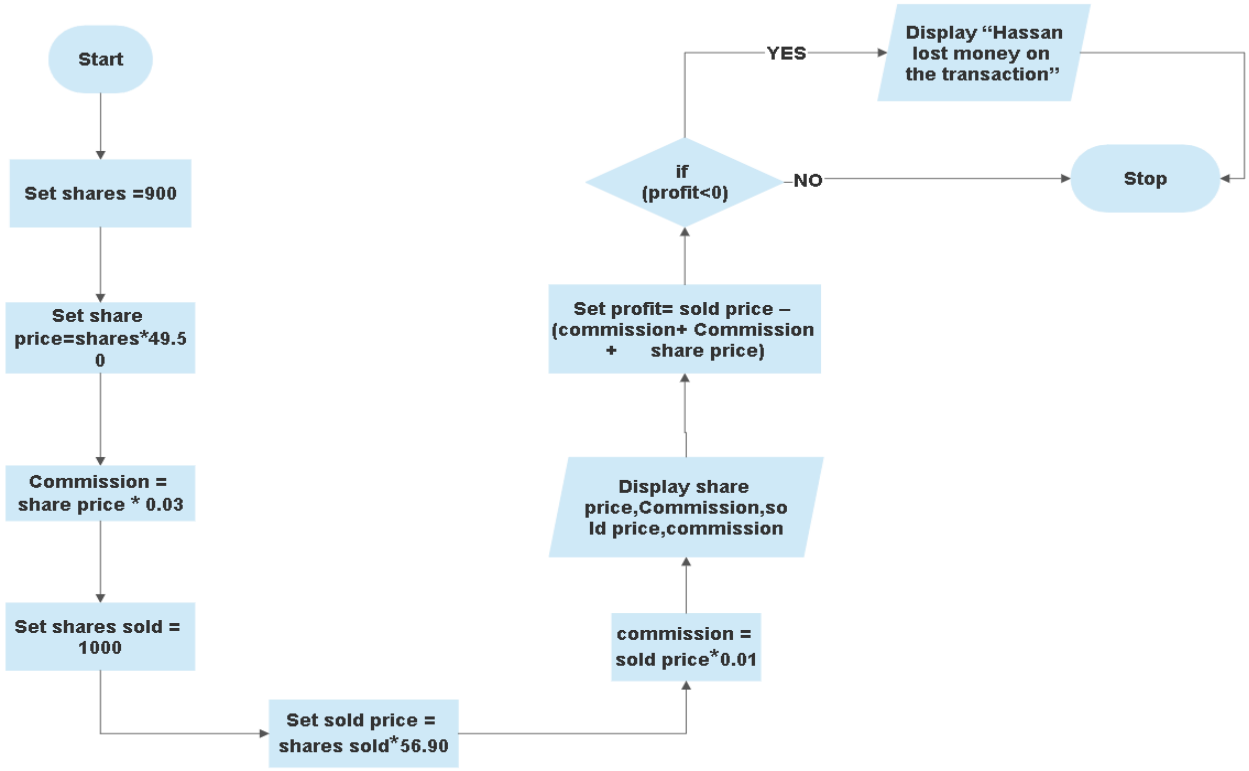
12) Set profit= sold price – (commission+ Commission + share price)

13) if (profit<0)

13.1) Display “Hassan lost money on the transaction”

14) Stop

Flowchart



Problem 9:

Pseudo code

1) Start

2) Display “Enter how many cookies you want”

2.1) Input cookies

3) Set sugar=(2/48)*cookies

4) Set butter =(1/48)*cookies

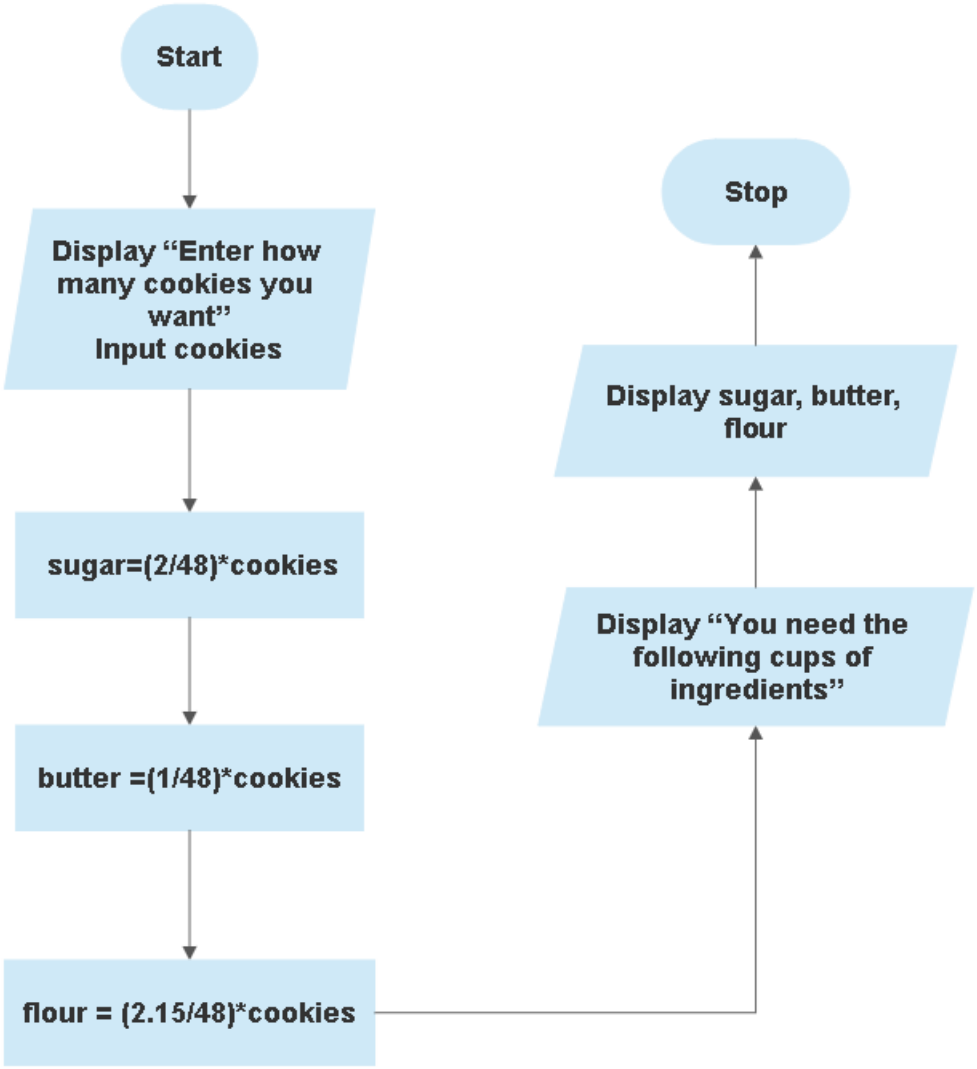
5) Set flour = (2.15/48)*cookies

6) Display “You need the following cups of ingredients”

7) Display sugar, butter, flour

8) Stop

Flowchart



Question 10

Pseudo code

1) Start

2) Display “Enter amount due, amount received”

3) Input amount due, amount received

4) if (amount due==amount received)

4.1) Display “there is no change”

5) if(amount received> amount due)

5.1) Set change = amount received – amount due

6) if(change>=100)

6.1) set Change=change

6.1.1) Set b=0,c=0,d=0,e=0

6.1.2) Set a= Change/100

6.1.3) Set Change =Change%100

6.2) if (Change>=25)

6.2.1) Set b= Change/25

6.2.2) Set Change= Change%25

6.3) if (Change>=10)

6.3.1) Set c=Change/10

6.3.2) Set Change=Change%10

6.4) if (Change>=5)

6.4.1) Set d= Change/5

6.4.2) Set Change=Change%5

6.5) if (Change>=1)

6.5.1) Set e= Change

7) if(change<100)

7.1) Set Change=change

7.1.1) Set a =0 ,b=0,c=0, d=0,e=0

7.2) if (Change>=25)

7.2.1) Set b= Change/25

7.2.2) Set Change= Change%25

7.3) if (Change>=10)

7.3.1) Set c=Change/10

7.3.2) Set Change=Change%10

7.4) if (Change>=5)

7.4.1) Set d= Change/5

7.4.2) Set Change=Change%5

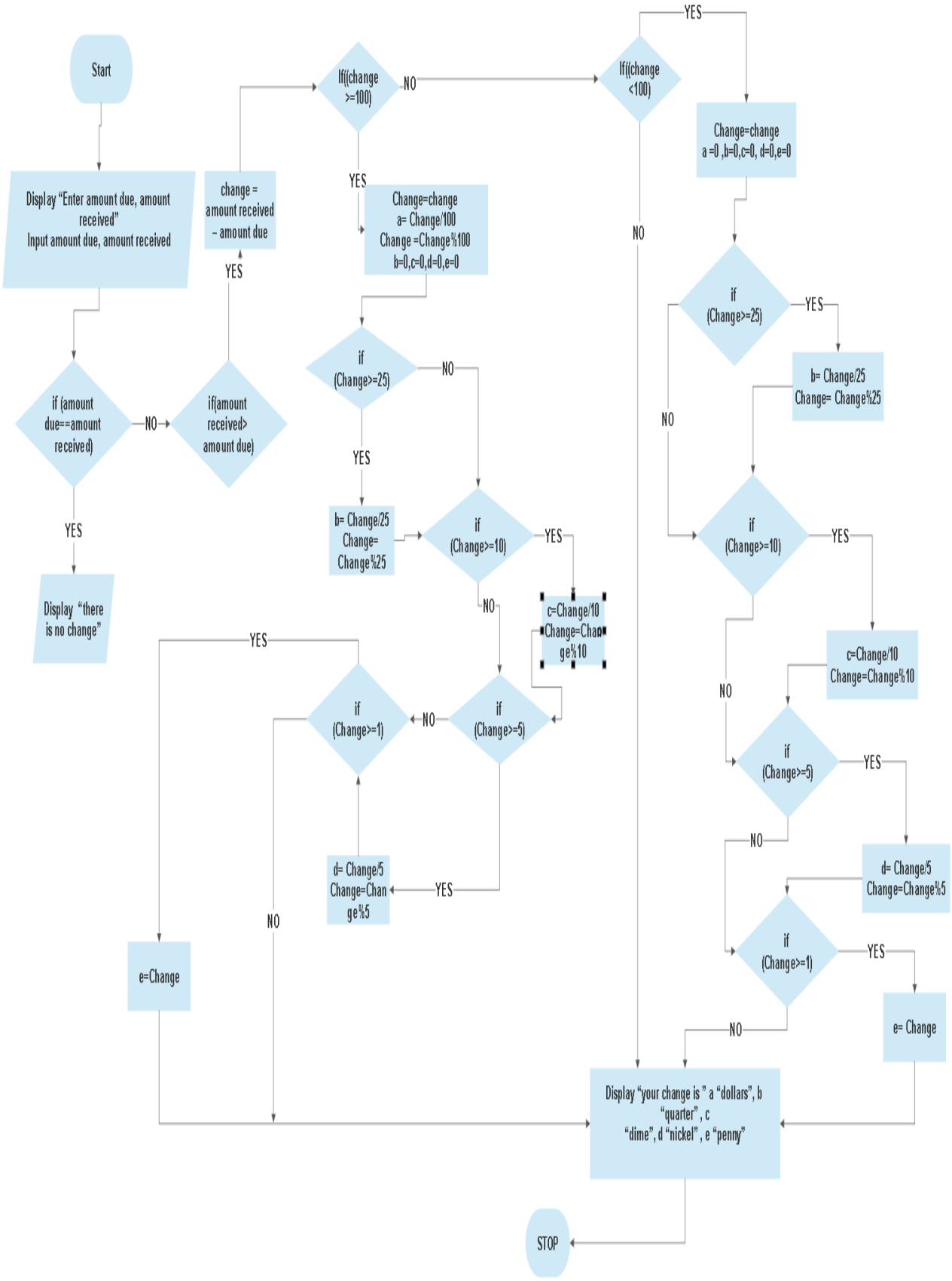
7.5) if (Change>=1)

7.5.1) Set e= Change

8) Display “your change is ” a “dollars”, b “quarter” , c “dime”, d “nickel” , e “penny”

9) Stop

FLOWCHART:


Start
Display "Enter amount due, amount received"
Input amount due, amount received
if (amount due==amount received)
NO
if(amount received> amount due)
YES
change = amount received - amount due
YES
Display "there is no change"
If((change >=100)
NO
YES
Change=change
a= Change/100
Change =Change%100
b=0,c=0,d=0,e=0
if (Change>=25)
NO
YES
b= Change/25
Change= Change%25
if (Change>=10)
YES
NO
c=Change/10
Change=Change%10
if (Change>=5)
NO
YES
d= Change/5
Change=Change%5
if (Change>=1)
NO
YES
e=Change
If((change <100)
YES
NO
Change=change
a =0 ,b=0,c=0, d=0,e=0
if (Change>=25)
YES
NO
b= Change/25
Change= Change%25
if (Change>=10)
YES
NO
c=Change/10
Change=Change%10
if (Change>=5)
YES
NO
d= Change/5
Change=Change%5
if (Change>=1)
YES
NO
e= Change
Display "your change is " a "dollars", b "quarter", c "dime", d "nickel", e "penny"
STOP

Question 11

1. 10

temp=10

10>0 (condition true)

remainder=0

character = 0

temp=5

bR= “0”

Now,

temp=5

5>0 (condition true)

remainder=1

character=1

temp=2

bR= “01”

Now,

temp=2

2>0(condition true)

remainder=0

character=0

temp=1

bR= “010”

Now,

temp=1

1>0 (Condition True)

remainder= 1

character= 1

temp= 0

bR= “0100”

Now temp=0(Condition false)

temp=10

10>0 (Condition True)

remainder=2

character=2

temp=1

oR= “2”

Now temp=1

1>0 (Condition True)

remainder=2

character=2

temp=0

bR= “22”

now temp =0

0>0 (condition false)

Result:bR= “0010”

oR= “22”

---

2. 60

Solution:

temp=60

60>0 (condition true)

remainder=0

character=0

temp=30

bR= “0”

temp=30

30>0 (condition true)

remainder=0

character=0

temp=15

bR= “00”

temp=15

15>0 (condition true)

remainder=1

character=1

temp=7

bR= “001”

Now,

temp=7

60>0 (condition true)

remainder=1

character=1

temp=3

bR= “0011”

Now,

temp=3

3>0 (condition true)

remainder=1

character=1

temp=1

bR= “00111”

Now,

temp=1

1>0 (condition true)

remainder=1

character=1

temp=0

bR= “001111”

Now,

temp=0

0>0 (condition false)

Now,

temp= 60

60>0 (condition true)

remainder= 4

character= 4

temp= 7

oR= “4”

Now,

temp =7

7>0 (condition true)

remainder=7

character=7

temp=0

oR= “47”

Now,

temp=0

0>0 (condition is wrong)

Result: bR=110000

oR=74

---

3. 65

Solution:

temp=65

65>0 (condition true)

remainder=1

character=1

temp=32

bR= “1”

NOW,

temp=32

32>0 (condition true)

remainder=0

character=0

temp=16

bR= “10”

Now,

temp=16

16>0 (condition true)

remainder=0

character=0

temp=8

bR= “100”

Now,

temp=8

8>0 (condition true)

remainder=0

character=0

temp=4

bR= “1000”

Now,

temp=4

4>0 (condition true)

remainder=0

character=0

temp=2

bR= “10000”

Now,

temp=2

2>0 (condition true)

remainder=0

character=0

temp=1

bR= “100000”

Now,

temp=1

1>0 (condition true)

remainder=1

character=1

temp=0

bR= “1000000”

Now,

temp=0

0>0 (condition False)

Now,

temp=65

65>0 (condition true)

remainder=1

character=1

temp=8

oR= “1”

Now,

temp=8

8>0 (condition true)

remainder=0

character=0

temp=1

oR= “10”

Now,

temp=1

1>0 (condition true)

remainder=1

character=1

temp=0

oR= “101”

Result:

bR= 0111111

oR= 010