# ASSIGNMENT

Qno1: Design algorithm ,pseudocode for processing a customer order at a restaurant ,including handling special requests(like add on).

## PSUEDOCODE

1.Start

2.Print “welcome to the restaurant”

3.Print “Show the menu

Burger = 300

Shake =150

Tea = 80 ”

4.Read order

5.Get order

6.Calc.if(special order==available) then “order is available” else “order is not available”.

7.Print pay

8.Calc.if (amount ==payable) then “order is ready” else “you are not available for this order”.

9.Print “THANKS FOR YOUR CORPORATION WITH US”

10.End

## ALOGORITHM

STEP 1: Start

STEP 2: The menu is

STEP 3: Order of burger & shake

STEP 4: Total amount = 300+150=450

STEP 5: Pay Total amount

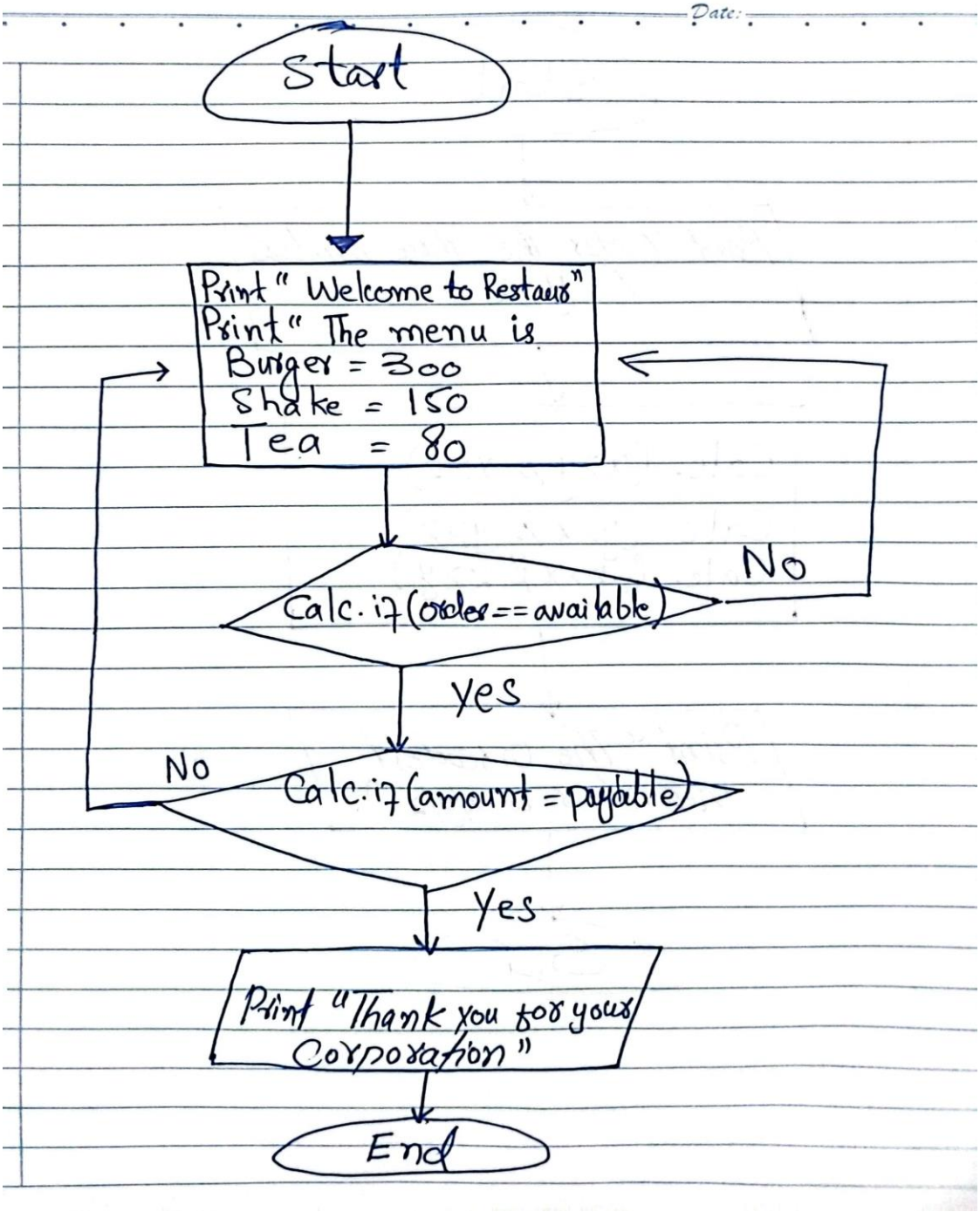
STEP 6: If (Total order==available) then “pick order”

STEP 7: If (amount==payable) then “order is ready”

STEP 8: Total amount is ……

STEP 9: End

# FLOWCHART


Start
Print " Welcome to Restaurs"
Print " The menu is
Burger = 300
Shake = 150
Tea = 80
Calc. if (order == available)
No
Yes
No
Calc. if (amount = payable)
Yes
Print "Thank you for your
Corporation"
End

Qno2: Design a Flowchart , Pseudocode , Algorithm for handling a customer's deposit transaction at a bank, including checks for validity and deposit amount conditions.

**PSUEDOCODE**

1.Start

2.Print Original pin = 1234

3.Print " Enter your pin "

4.Read pin

5.Calc. if (pin==original pin) then "Enter the amount "

else " Incorrect pin "

6.Print " Enter the amount you needed "

7.Print Total amount is " *****"

8.Calc. if (amount == available) then " get your amount " else

"amount is not available "

8.Print " your receive amount is ***** "

9.End

# ALGORITHM

STEP 1: Start

STEP 2: If (Pin == original correct)

STEP 3: Enter the amount

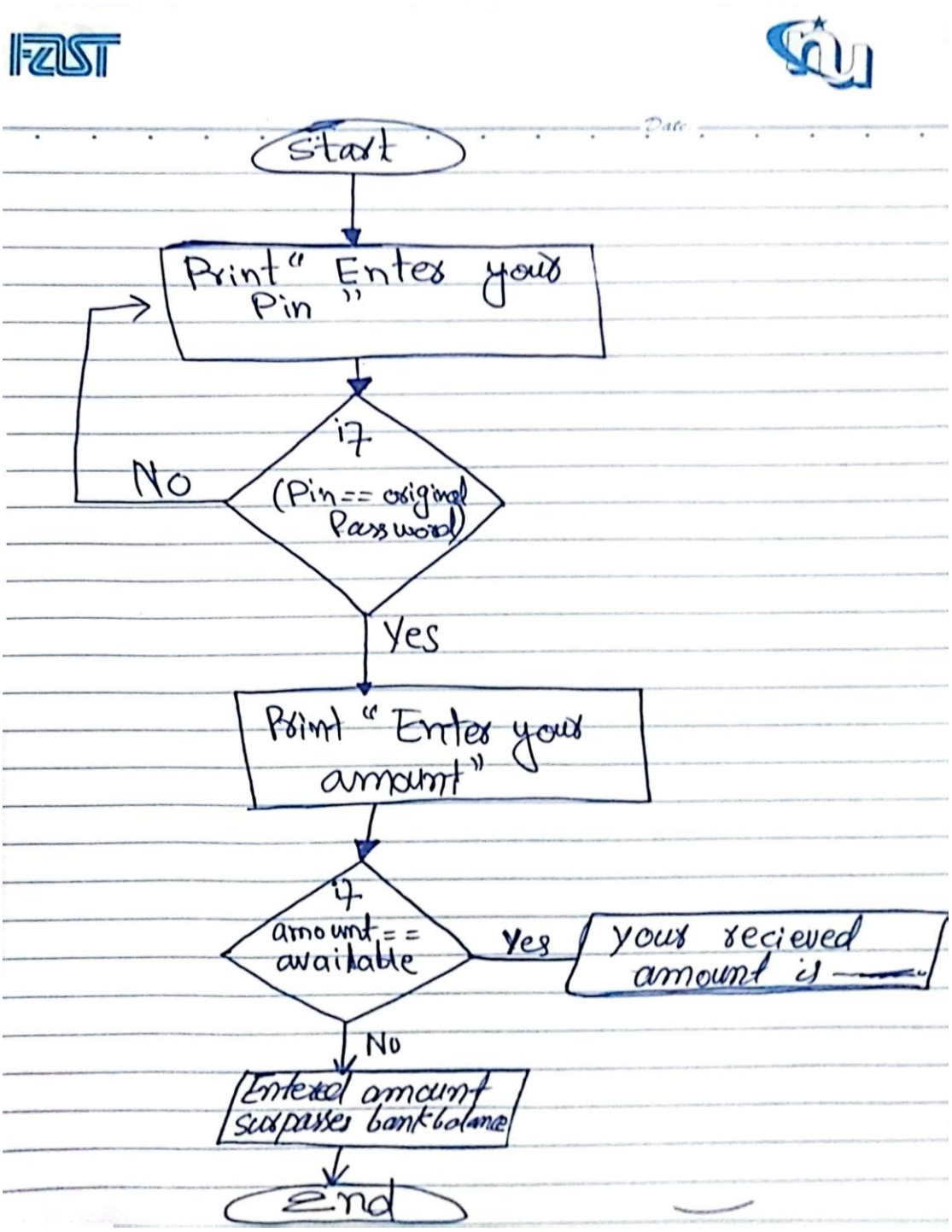
STEP 3:  If (Amount == available)

STEP 4:  Amount is available

STEP 5:  Received Amount is --------

STEP 6: End

# FLOWCHART


Start
Print " Enter your Pin "
if (Pin == original Password)
No
Yes
Print " Enter your amount"
if amount == available
Yes
your recieved amount is ——
No
Entered amount surpasses bank balance
End

Qno:3. Design a flowchart, pseudocode , algorithm to determine the which of three provided numbers is greatest.

# PSUEDOCODE

1.Start

2.Print “Enter the three numbers x ,y ,z ”

3.Read numbers

4.Get numbers

5.Calc: if (x>y & x>z) then “ Greatest number is x ” .

6.Calc: if (y>x & y>z) then “ Greatest number is y ” .

7.Calc: if (z>x & z>y) then “ Greatest number is z ” .

8.Print: “The Greatest number is x/y/z”.

9.End

# ALGORITHM

Step 1: Start

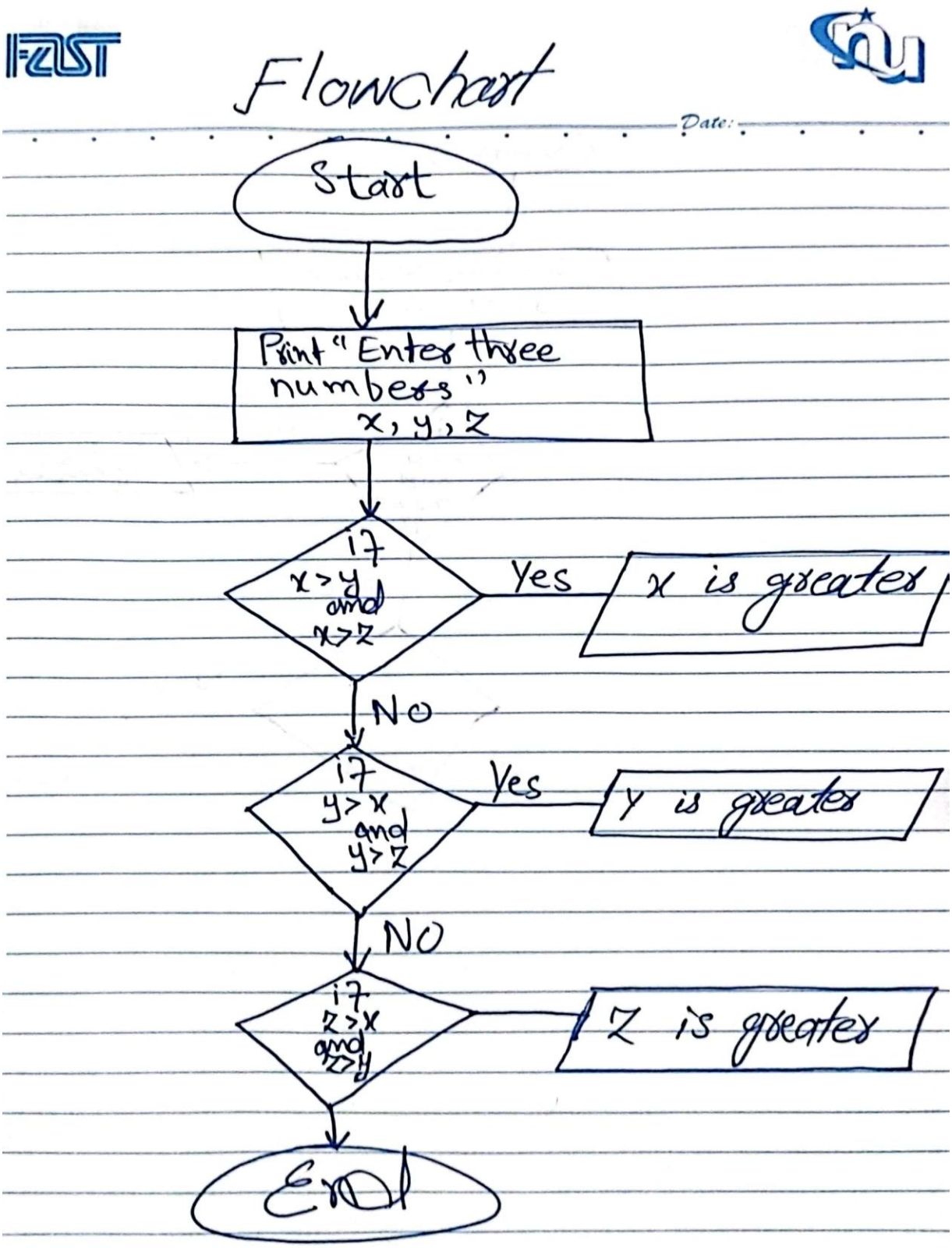
Step 2: Three numbers are (23,35,67).

Step 3: If (x>y and x>z, y>x and y>z, z>x and z>y)

Step 4: The greatest number is “67”.

Step 5: End

# FLOWCHART


Flowchart
Date:
Start
Print "Enter three numbers"
x, y, z
if x>y and x>z
Yes
x is greater
NO
if y>x and y>z
Yes
Y is greater
NO
if z>x and z>y
Z is greater
End

Qno:4. Implement an algorithm where the user enters a number , and an appropriate month is displayed.

# ALGORITHM

STEP 1: Start

STEP 2: Enter a number between 1 and 12

STEP 3: If (number is 1 then print “January” and number is 2 then print “February” and number is 3 then print “March” and number is 4 then print “April” and number is 5 then print “May” and number is 6 then print “June” and number is 7 then print “July” and number is 8 then print “August” and number is 9 then print “September” and number is 10 then print “October” and number is 11 then print “November” and number is 12 then print “December”).

STEP 4: The appropriate month is ---------

STEP 5: End

Qno:5. Create pseudocode a small calculator which only does ‘+’, ‘-’ Operations. (Hint: Take three variable inputs with one being used for the operator).

# PSUEDOCODE

1. Start
2. Print “enter the variables sum, x ,z”
3. Get variable
4. Read variable
5. Calc sum= x + y
6. Print “The sum is” + sum
7. End

# ALGORITHM

STEP 1: Start

STEP 2: Value of variable x is 34

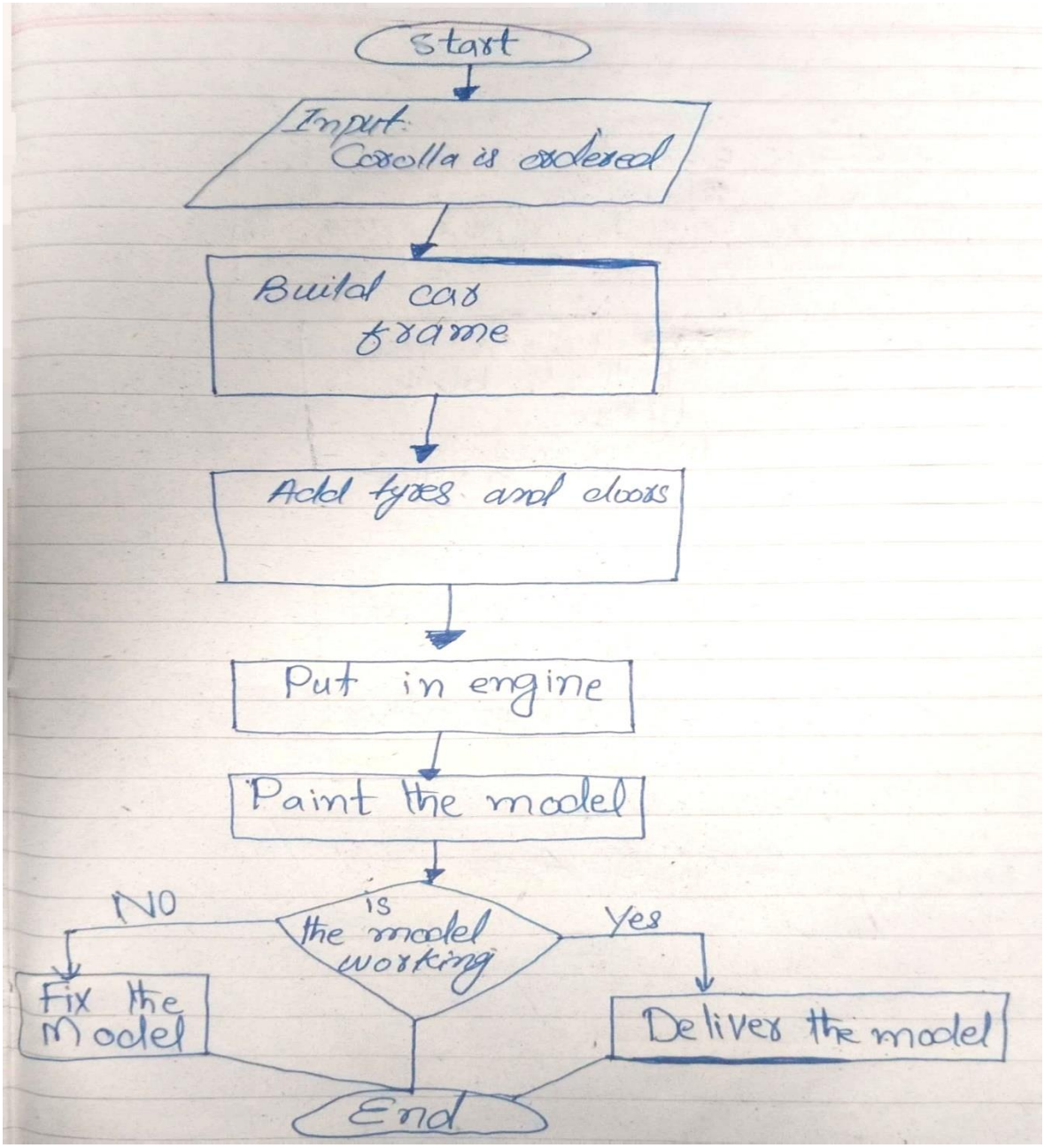
STEP 3: Value of variable y is 16

STEP 4: The sum of x and y is 50

STEP 5: End

QNO:6. You are working at Toyota Indus Motors and want to assemble a car. Design a flowchart with proper process modules and decision structures to replicate a pipeline production.

# FLOWCHART



Qno:7. Implement an algorithm for making a simple calculator with all the operators (+,-,*,/,%).

# PSEUDOCODE

1.Start

2.Print“Enter the variables sum,subtract,multiply,divide,remainder,a,b”

3.Get the variables

4.Read the variables

5.Calc: sum= x + y

6.Calc: subtract= x-y

7.Calc: multiply= x*y

8.Calc: divide= x/y

9.Calc: reminder= x %y

10.Print “The sum of a and b is ”+ sum;

11.Print “The subtract of a and b is “+ subtract;

12.Print “The multiply of a and b is ”+ multiply;

13.Print “The divide of a and b is ”+ divide;

14.Print “The remainder of and b is ”+ reminder;

15.End

# ALGORITHM

STEP 1: Start

STEP 2: Value of a=12, b=2

STEP 3: The sum of a and b is 14

STEP 4: The subtract of a and b is 10

STEP 5: The multiply of a and b is 24

STEP 6: The divide of a and b is 6

STEP 7: The reminder of a and b is 6.0

STEP 8: End

Qno:9. Why we use .gitignore?

Ans: It is used to ignore files & directories in a project. Git would not track changes to these files or include them in commits. It is used to exclude unnecessary files, like temporary files or personal settings. It ignore files containing sensitive data like passwords. It is used to reduce repository size that are not necessary for project. Have a continuous collaboration and improve Git performance by ignoring unnecessary files .

Common examples:

i. *.env
ii. *.tmp
iii. *.log

Qno:10. Difference between Algorithm and Pseudocode?

| PSUEDOCODE | ALGORITHM |
| --- | --- |
| 1.A rough sketch to organize and understand a program. | 1.Set of instructions to solve the problem. |
| 2.It is more general. | 2.It is more specific. |
| 3.It requires set of rules to write. | 3.It does not requires set of rules to write. |
| 4.It is an end-to-end description of an algorithm in formal English to define the logic. | 4.It is a step-by-step task procedure for performing task or solving a problem. |
| 5.It is a simpler version of programming code . | 5. It is a systematic logical approach which is well defined. |