(Q.no 1) Design a flowchart, Pseudocode, Algorithm for processing a customer order at a restaurant, including handling special requests (Like add on).

"ALGORITHM"

- Greet the customer
- Show menu to the customer
- Ast the user to take order from the customer
- IF the order is available THEN
- Display your order is available
- Or else say your order is not available
- Show the bill to the customer
- ASK if you need anything else
- ADD the add on in the order
- Set the bill
- IF the bill is equal to actual amount, then place the order
- IF the bill is less than the actual amount then subtract the actual amount from bill amount
- Otherwise display your order cannot be placed

“PSUEDOCODE”

START

DISPLAY “WELCOME TO THE RESTAURANT! HOW MAY I HELP YOU”

DISPLAY menu to the customer

TAKE order from the customer

IF the order is available

THEN Print “Your order is available”

ELSE

“Your order is not available”

ASK “if you need to something else”

IF “Yes “THEN

Print “Add on is included in the order”

ELSE

Calculate the bill

IF the bill = = Actual amount

THEN “Print your order has been placed”

ELSE IF the bill < Actual amount

THEN Print the change

ELSE

Print “Your order cannot be placed”

END

(Q.no 2) Design a flowchart, Pseudocode, Algorithm for handling a customer's deposit transaction at a bank, including checks for account validity and deposit amount conditions.

"PSUEDOCODE"

START

DISPLAY "Welcome to the bank"

DISPLAY "The bank account"

DISPLAY "Pin"

READ "Pin"

IF the pin is correct, THEN

    Display "the amount of transaction

ELSE "Incorrect pin"

READ "The amount of transaction"

IF the amount deposit <= Current Balance THEN

    PRINT "Get Cash"

ELSE Print "Your transaction cannot be processed"

END

“ALGORITHM”

- Greet the user “Welcome to the Bank”
- Ask the user for the bank account
- Ask the user for the pin
- Set the pin
- If the pin is correct ask the user how much money, do you want to deposit
- Otherwise print your pins incorrect
- Set the amount of transaction
- IF the amount deposit is less than or equal to current balance then ask the user to get cash
- Otherwise say your transaction cannot be processed

(Q.no 3) Design a flowchart, Pseudocode, Algorithm to determine which of three provided numbers is the greatest.

"PSUEDOCODE"

START

DISPLAY "Enter the number 1"

DISPLAY "Enter the number 2"

DISPLAY "Enter the number 3"

READ number 1,2,3

IF the number1>number2>number3

THEN Print "Number 1 is greater"

ELSE IF Number2>Number1>Number3

THEN Print "Number 2 is greater"

ELSE

PRINT "Number 3 is greater"

END

“ALGORITHM”

- Ask the user to enter NUMBER 1
- Ask the user to enter NUMBER 2
- Ask the user to enter NUMBER 3
- Set the three numbers
- IF the number 1 is greater than number 2 and number 1 is greater than number 3 then
- Display number 1 will be the greatest Number
- If not, then check IF Number 2 is greater than number 1 and number 2 is greater number 3
- then number 2 will be the greatest Number
- Otherwise, Number 3 will be the greatest number

(Q.no 4) Implemnt an algorithm where the user enters a number, and an appropriate month is displayed.

"Algorithm"

- Ask the user to enter a NUMBER (1-12)
- If the number is 1 then display JANUARY
- Otherwise, if they enter number 2 then display FEBRUARY
- Or if they enter number 3 then
- Display MARCH to the user
- Or if they enter number 4 then
- Display APRIL to the user
- Or if they enter number 5 then
- Display MAY to the user
- Or if they enter number 6 then
- Display JUNE to the user
- Or if they enter number 7 then
- Display JULY to the user
- Or if they enter number 8 then
- Display AUGUST to the user
- Or if they enter number 9 then
- Display SEPTEMBER to the user
- Or if they enter number 10 then
- Display OCTUBER to the user
- Or if they enter number 11 then
- Display NOVEMBER to the user
- Or if they enter number 12 then
- Display DECEMBER to the user

(Q.no 5) Create pseudocode a small calculator which only does '+' or '-' Operations. (Hint: Take three variable inputs with one being used for the operator)

"PSUEDOCODE"

START

PRINT "Enter Number1, number2, number3"

READ N1, N2, N3

DISPLAY "Enter your operation"

IF the operation == "+"

THEN SUM= N1+N2+N3

ELSE If the operation == "- "

THEN SUBTRACT=N1-N2-N3

END

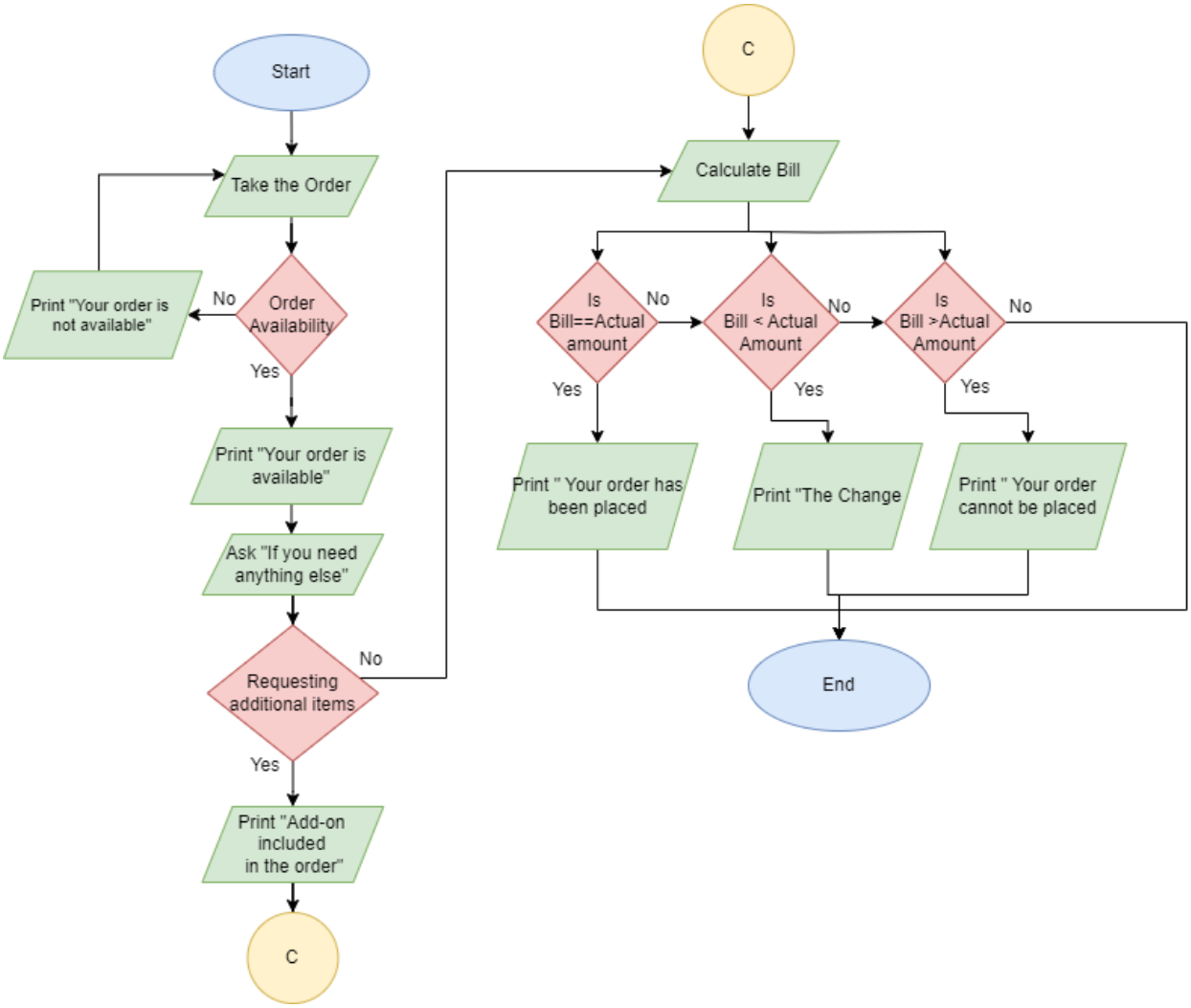
(Q.no 7). Implement an algorithm for making a simple calculator with all the operators (+, -, *, /, %).

“Algorithm”

- Ask the user to enter A
- Ask the user to enter B
- Ask the user to enter operator i.e (Addition, Subtraction, Multiplying, Division, Remainder)
- If the user enter’s addition operator, then set sum to (A+B)
- If the user enter’s subtraction operator, then set subtraction to (A-B)
- If the user enter’s multiplication operator, then set multiplication to (A*B)
- If the user enter’s division oprator, then set quotient to (A/B)
- If the user enter’s remainder operator, then take remainder to (A%B)
- If none of these conditions are true, then ask the user to enter operators again
- Display Calculator to the user

(Q.no 1) Design a flowchart, Pseudocode, Algorithm for processing a customer order at a restaurant, including handling special requests (Like add on).

“FLOWCHART”



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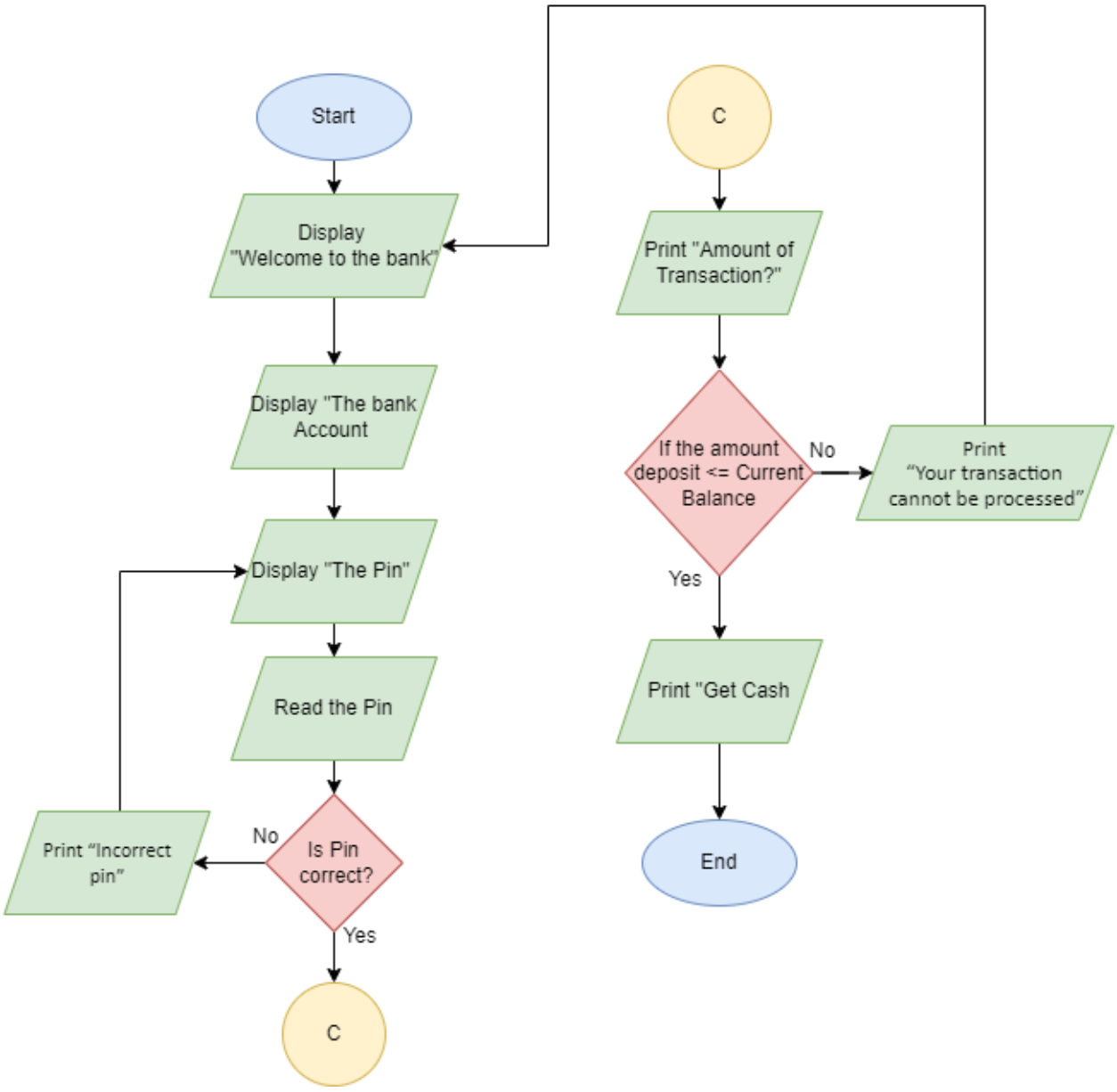
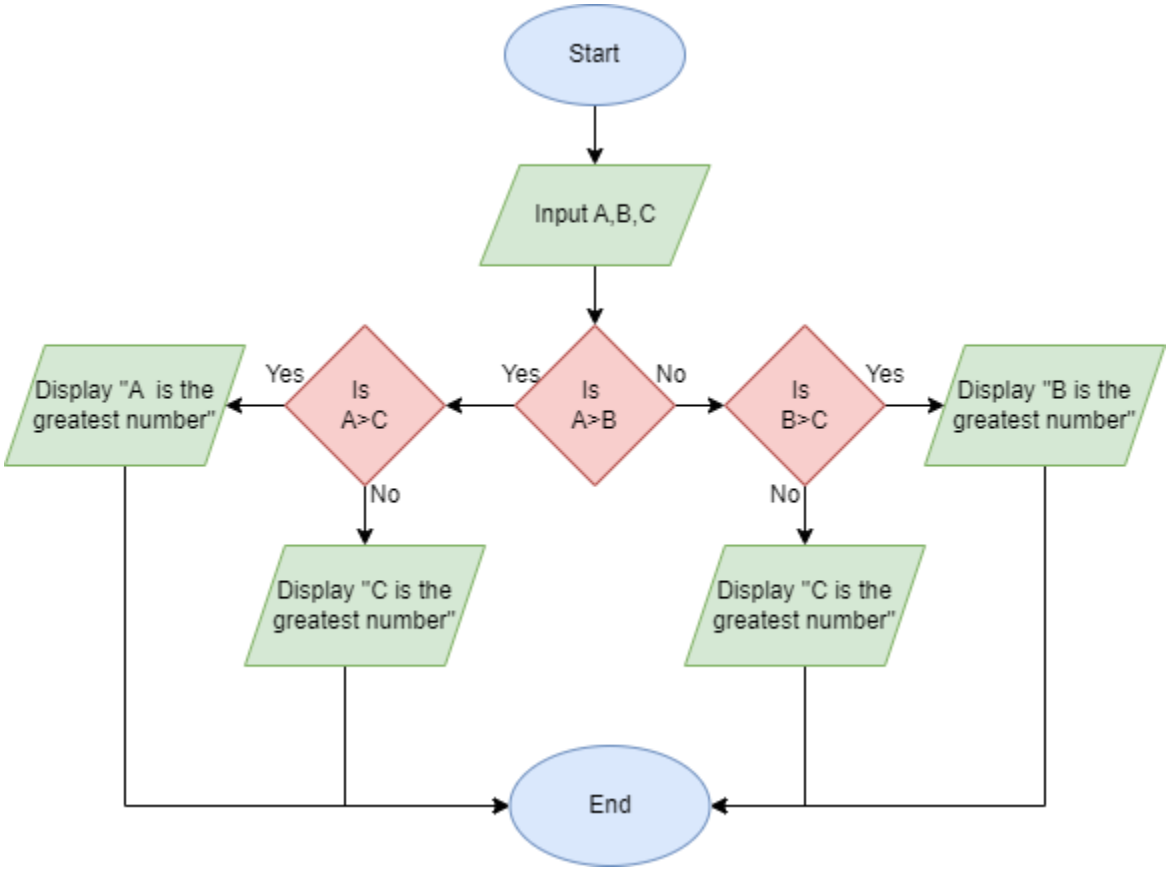
“FLOWCHART”



(Q.no 3) Design a flowchart, Pseudocode, Algorithm to determine which of three provided numbers is the greatest.

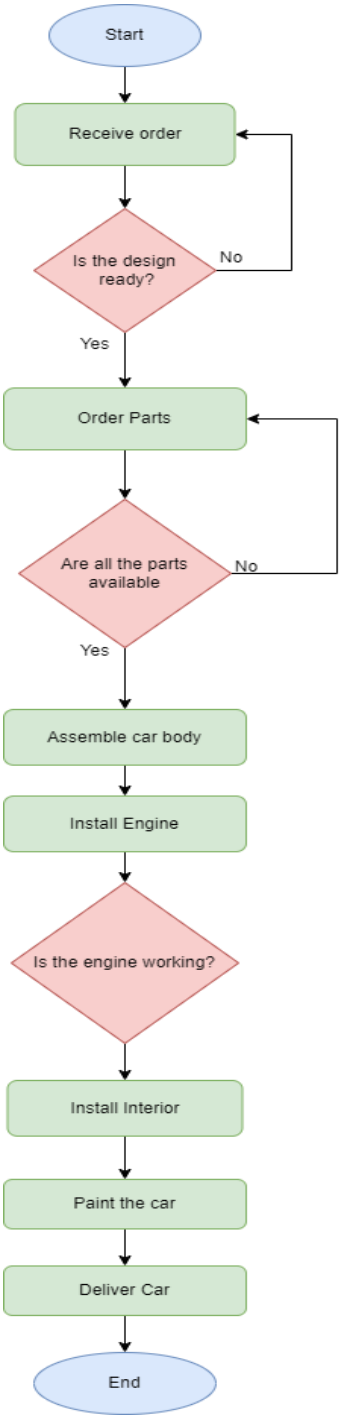
“FLOWCHART”



(Q.no 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”

Next Page


Start
Receive order
Is the design ready?
No
Yes
Order Parts
Are all the parts available
No
Yes
Assemble car body
Install Engine
Is the engine working?
Install Interior
Paint the car
Deliver Car
End

(Q.NO 9) Why we use. gitignore?

Ans: It’s a file used in a Git repository to ignore unnecessary files and directories, preventing them from being tracked and included in the version history, thus helping keep the repository clean and secure.

(Q.no 10) Difference between Algorithm and Pseudocode?

Ans: An algorithm is an English-oriented way of describing the steps needed to solve a problem, providing a conceptual understanding of how a program works. On the other hand, pseudocode is a simplified programming language that resembles actual code syntax, but it isn't processed by a computer