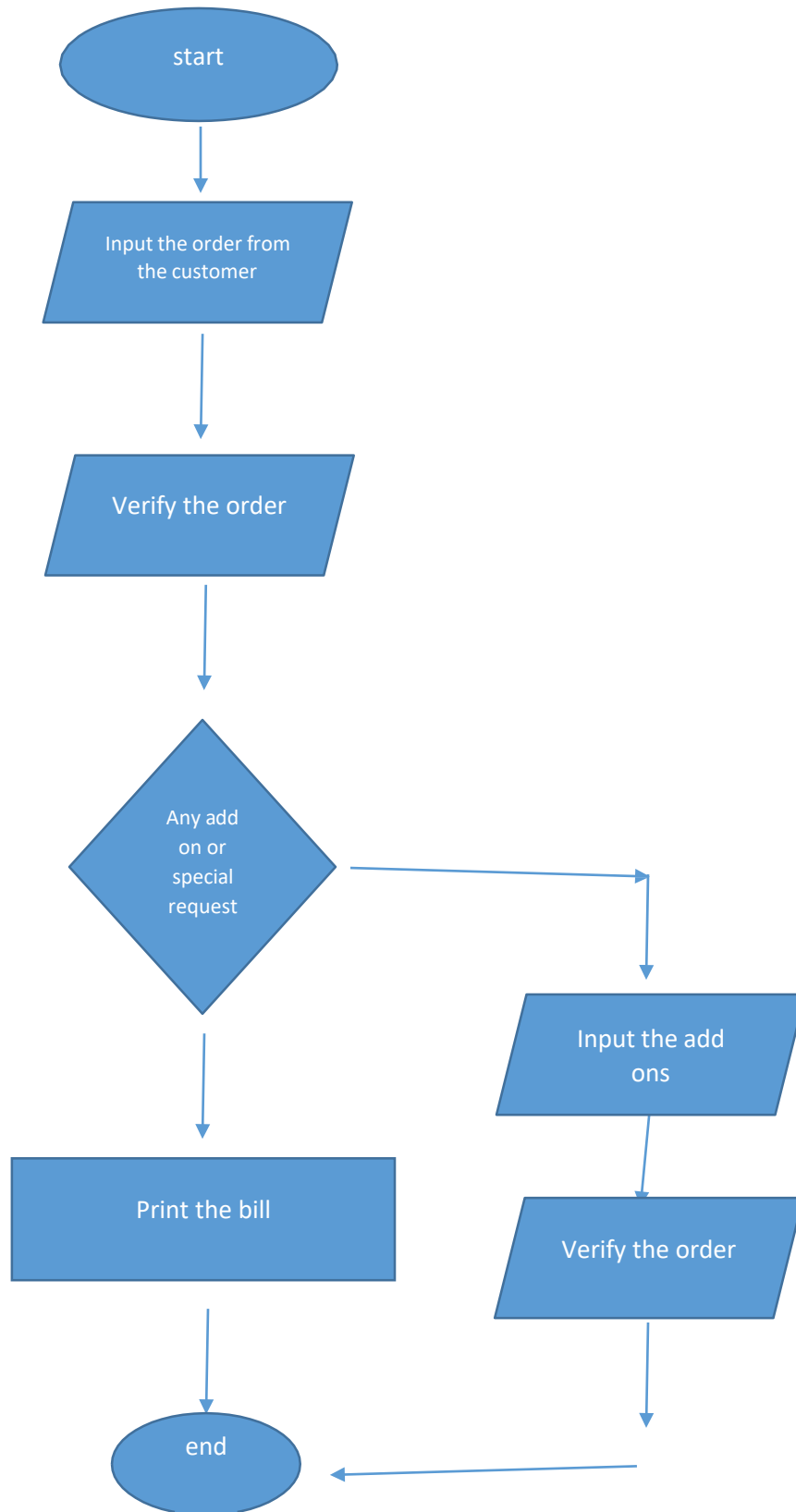


1. Design a flowchart, Pseudocode, Algorithm for processing a customer order at a restaurant, including handling special requests (Like add on).



# **Pseudo code**

1. Start
2. Input the order from the customer
3. Output the order for verification
4. IF (There are any special requests or add ons)
5. {
6. Input the Add ons
7. Output the Add ons for verification
8. }
9. Print "bill"
10.       END

# **ALGORITHM**

1. Start
2. Input the order from the customer
3. Check if the raw materials are present in the inventory
4. Repeat the order loudly in front of the customer to verify if the order is correct
5. IF There is any special request or add on from the customer
6. Input the special request
7. Repeat the special request loudly in front of the customer to verify if the order is correct
8. ELSE Process the bill without the add ons
9. Print the bill
10.       End

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.

## **Pseudo code**

1. Start
2. Input the card from the user
3. If (balance>1000)
4. Print "The transaction can be made"
5. ELSE
6. Print "Transaction failed"
7. Print "Enter the amount of withdrawal"
8. IF (amount > balance)
9. Print "Insufficient amount"
10.       Print"The amount to be withdrewed is", amount
11.       End

## **ALGORITHM**

1. Start
2. Input the card from the user
3. Check if the balance of the account is greater than 1000
4. IF not the transaction cannot be made
5. If possible the process of transaction should move further
6. The user should type the amount of money to be withdrawn from the account
7. Check if the amount is less than balance of the bank account
8. If not the transaction cannot be made
9. If yes the transaction should be moved further
10.       The amount of money withdrawn should be shown on the screen and the receipt should also be printed
11.       END

3. Design a flowchart, Pseudocode, Algorithm to determine which of three provided numbers is the greatest.

## **Pseudo code**

1. Start
2. INPUT number 1
3. INPUT number 2
4. INPUT number 3
5. IF number 1 > number 2 and number 1 > number 3
6. Output number1
7. ELSE IF number 2 > number 1 and number 2 > number 3
8. Output number 2
9. ELSE number 3 > number 1 and number 3 > number 2
10.       Output number 3
11.       END

## **ALGORITHM**

1. START
2. Enter the first integer
3. Enter the second integer
4. Enter the third integer
5. Check whether number 1 is greater than number 2 and number 3
6. If the number 1 is greatest
7. Print the number 1
8. Else if Check whether number 2 is greater than number 1 and number 3
9. If the number 2 is the greatest
10.       Print the number 2

11. ELSE Check whether number 3 is greater than number 1 and number 2
  12. If the number 3 is the greatest
  13. Print the number 3
  14. END
4. Implement an algorithm where the user enters a number, and an appropriate month is displayed.

## **ALGORITHM**

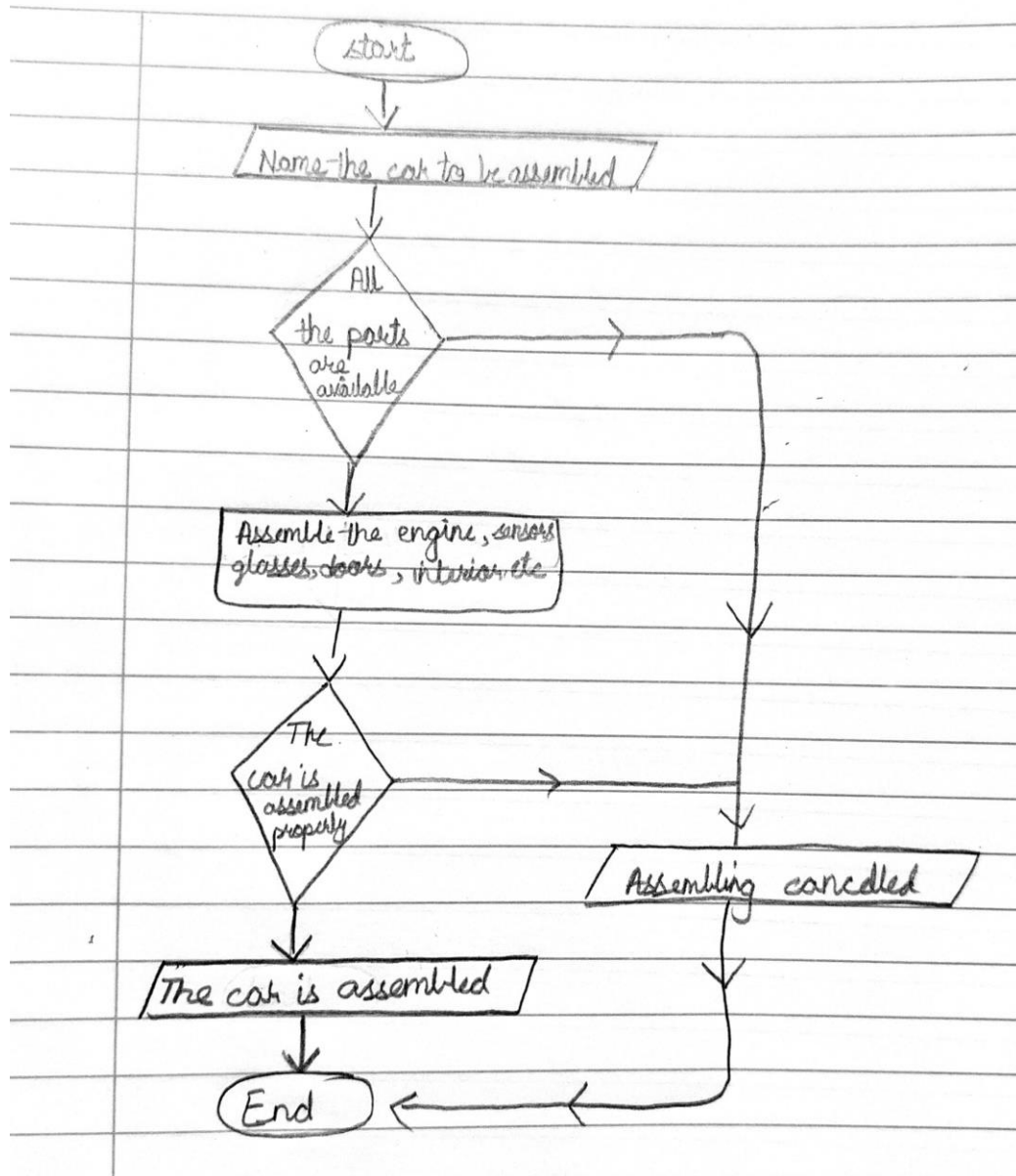
1. Start
2. Enter the integer
3. In the case of number 1
4. Print the month January
5. In the case of number 2
6. Print the month February
7. In the case of number 3
8. Print the month March
9. In the case of number 4
10. Print the month April
11. In the case of number 5
12. Print the month May
13. In the case of number 6
14. Print the month June
15. In the case of number 7
16. Print the month July
17. In the case of number 8
18. Print the August
19. In the case of number 9
20. Print the month September
21. In the case of number 10
22. Print the month October
23. In the case of number 11

24. Print the month November
  25. In the case of number 12
  26. Print the month December
  27. If any other number is entered the program will print "Invalid number"
  28. End
5. Create pseudocode a small calculator which only does '+' or '-' Operations. (Hint: Take three variable inputs with one being used for the operator)

## Pseudo Code

1. Start
2. INPUT number 1
3. INPUT number 2
4. INPUT character
5. IF (character='+' | character='-')
6. Process number 1 character number 2
7. ELSE
8. PRINT "Invalid operator"
9. OUTPUT
10. END

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.



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

1. Start
2. Input the first number
3. Input the second number
4. Input the operator to be processed
5. In case the operator input is +, perform the addition of the two numbers and print it
6. In case the operator input is -, perform the subtraction of the two numbers and print it
7. In case the operator input is \*, perform the multiplication of the two numbers and print it
8. In case the operator input is /, perform the division of the two numbers and print it
9. In case the operator input is %, perform the modulus of the two numbers and print it
10. If any other operator is given in the input print invalid operator
11. End

10. Difference between Algorithm and Pseudocode?

**ALGORITHM:** It is the step by step process in which there is every single detail about the problem . Every step is explained in a way that the user understands everything about the problem. It is made before drawing a flow chart

**PSEUDO CODE:** It is a step by step process in which the program of a problem is translated into simple english language so that it is very easy for everyone to understand