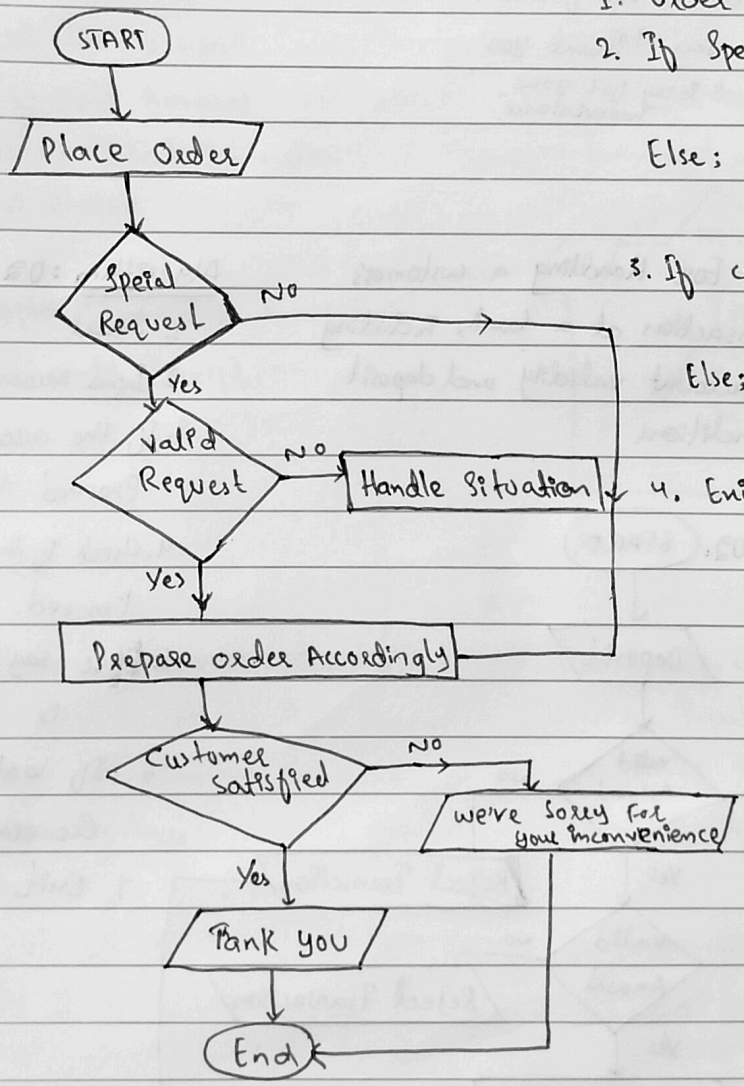
Date: 02 - Sep - 24

LAB : 02 :

TASK : 01 : For Procesing a customer order at a restaurant, including handling speial requests:

Flow chart:



Pseudocode :

1. Order recieved.
2. If Speial order;
   Handle According.
   Else;
   Handle Normally.
3. If customer satisfied
   Display "Thank you"
   Else;
   Display "We're sorry for your inconvenience"
4. Exit.

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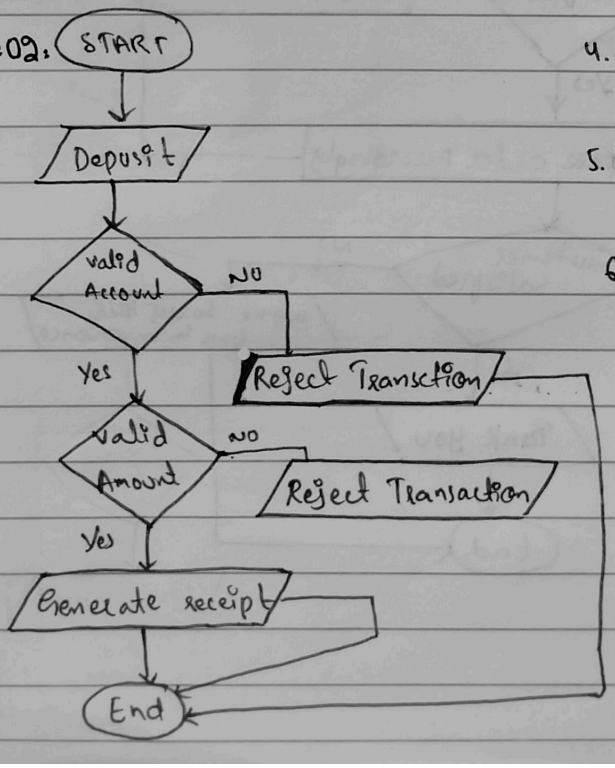
Algorithm:01. Start

1. Receive the order
3. check for the special request If any.
4. If not, then prepare order normally.
5. Serve it to the customer.
6. check customer Satisfaction.
7. If Satisfied say "Thank you".
8. If not Say "Sorry for your inconvenience".
9. Exit.

TASK : 02: For Handling a customer's deposit transaction at a bank, including checks for account validity and deposit amount conditions.

Flow chart:02:



Algorithm :02:

1. Start.
2. Input Account No. and deposit No.
3. If the account is valid. Proceed for ward.
4. Check If the amount is valid Proceed forward.
5. Else say Transaction is rejected.
6. If both are valid Generate the receipt
7. Exit.

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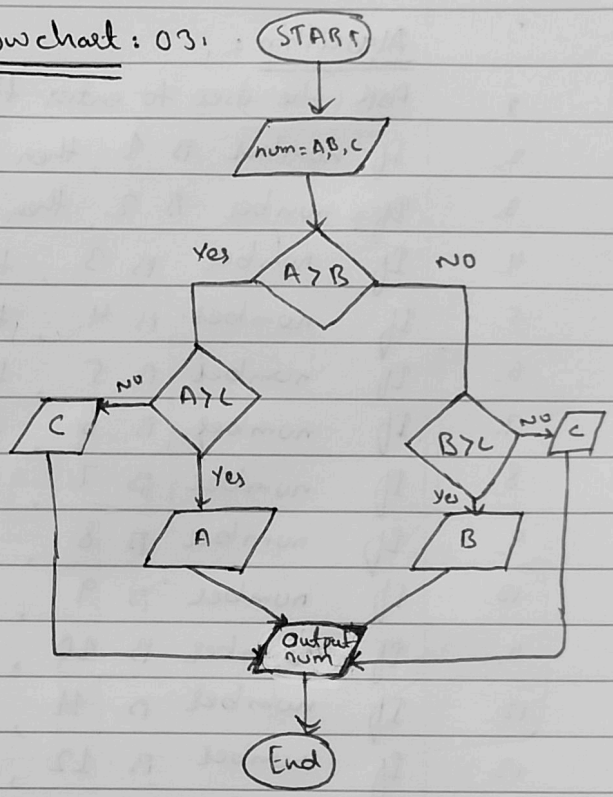
Pseudocode: 02.

1. Deposit Request.
2. Check Account validity
3. If Invalid:
   Display "Reject Transaction".
   End Process.
4. Else:
   Check the A mount.
5. If Insufficient Amount
   Display "Reject Transaction"
   End process
6. Else:
   Display "Transaction Sucessfully"
   Generate Receipt.
7. Exit.

TASK: 03: To determine which of these provided numbers is the greatest.

Flow chart: 03:



Algorithm: 03:

1. Start
2. Input three Numbers as A, B and C.
3. Compare If A is greater than B,
4. If A is, then compare A with C
5. If A is greater than C then it's greatest
6. Else C is Greatest.
7. If A is not greater than B, then B
8. Compare B with C now.
9. If B is greater, then it's greatest.
10. Else C is greatest.
11. Exit

Pseudocode: 03: START

1. Input 3 num A, B, C
2. If A > B:
   If A > C:
   Output "A is greatest"
   Else:
   Output "C is greatest"
3. Else:
   If B > C:
   Output "B is Greatest"
   Else:
   Output "C is Greatest"
4. Exit.

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TASK : 04: Implement an algorithm where the user enter a number, and an appropriate month is displayed.

Algorithm :

1. Ask the user to enter the number from 1-12
2. If number is 1, then print "January"
3. If number is 2, then print "Febuary"
4. If number is 3, then Print "March"
5. If number is 4, then Print "April"
6. If number is 5, then Print "May"
7. If number is 6, then Print "June"
8. If number is 7, then Print "July"
9. If number is 8, then Print "August"
10. If number is 9, then Print "September"
11. If number is 10, then Print "October"
12. If number is 11, then Print "November"
13. If number is 12, then Print "December"
14. Display the month corresponding to the entered number
15. Exit

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TASK: 05: Create pseudocode a small calculator which only does '+' or '-' operations. (Hint: Take three variables inputs with one being used for the operator)

Pseudocode:

1. Start
2. Input ~~First~~ Number = "num 1"
3. Input operation: (either "+" or "-")
4. Input Second Number = "num 2"
5. If operator is '+':
   Result = num 1 + num 2
6. Else:
   If Operator is '-':
   Result = num 1 - num 2
7. Print Output accordingly
8. Exit.

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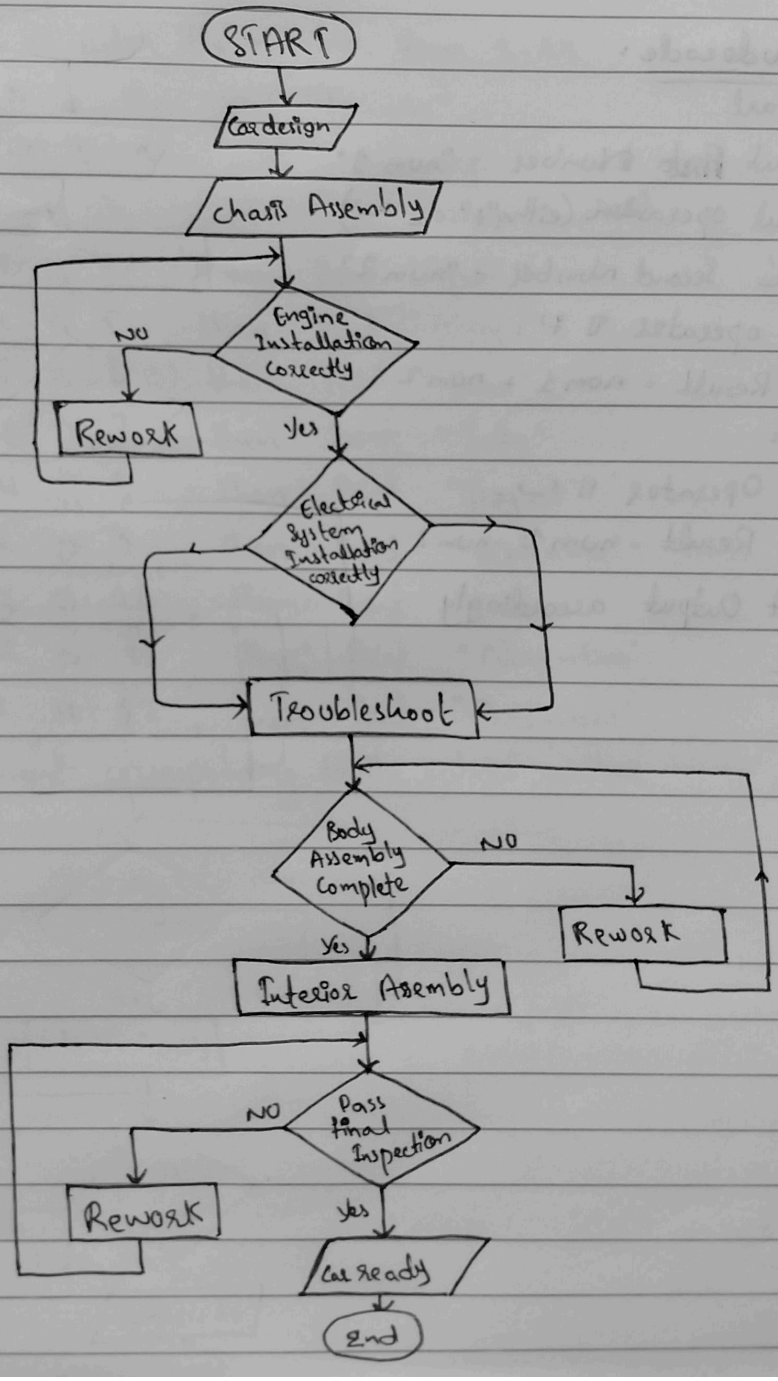
TASK: 06: You are working at Toyota Indus Motors and want to assemble a car. Design a flowchart with proper modules and decision structures to replicate a pipeline production.

Flow chart:



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TASK : 07 : Implement an algorithm for making a simple calculator with all the operators (+, -, *, /, %).

Algorithm :

1. Start.
2. Input a Number.
3. User and Operator (+, -, *, /, %)
4. Input another number.
5. If '+', the numbers will add.
   If '-', the numbers will Subtract
   If '*', the numbers will Multiply
   If '/', the numbers will divide
   If '%', the remainder of the division of the first number will compute by the Second.
6. Display the result of the calculation.
7. End.