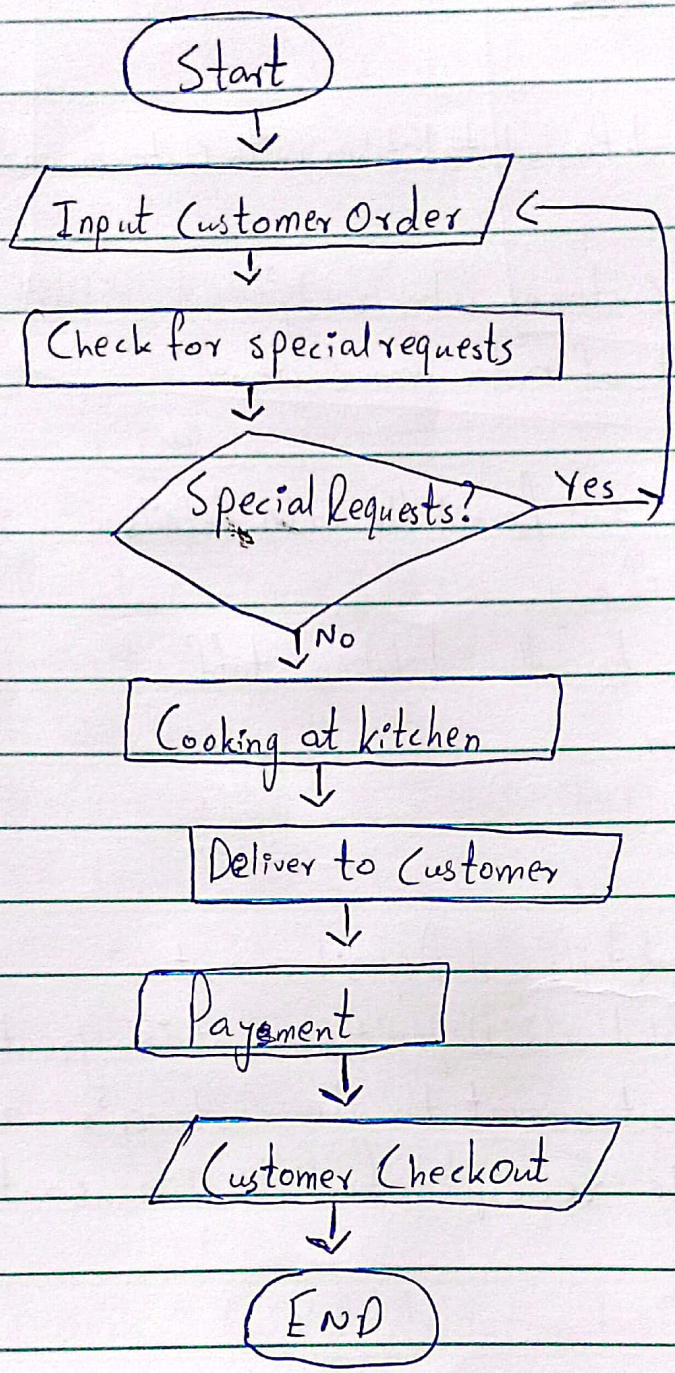
Lab Tasks #2

1.


Start
Input Customer Order
Check for special requests
Special Requests?
Yes
No
Cooking at kitchen
Deliver to Customer
Payment
Customer CheckOut
END

Date:

1. ~~Procedure~~ Pseudocode

```
DECLARE Order, Special_Requests : STRING
DECLARE Requests : BOOLEAN
~~INPUT Order~~
~~Requests = TRUE~~
~~Order = TRUE~~
    INPUT Order
        IF ~~Order~~ Requests = TRUE THEN
            INPUT Special_Requests
            OUTPUT "Sent order to kitchen"
            ~~Requests <- FALSE~~
        ELSE
            OUTPUT "~~Send~~ Proceed to kitchen with Customer order"
        ENDIF
    OUTPUT "Serve Order to Customer when ready"
    OUTPUT "Recieve Payement of order from Customer"
```

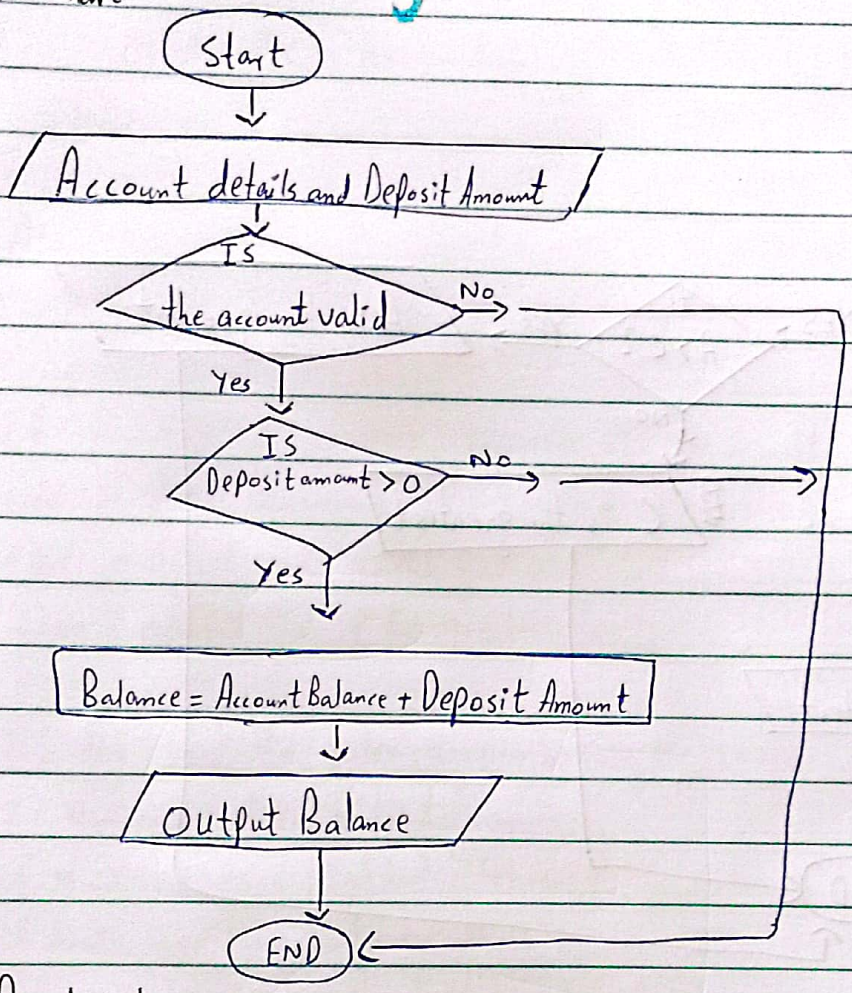
1. Algorithm
   - Recieve the Customer's order and Record the order details
   - Record the special requests, if any.
   - Transmit the order details to the kitchen staff.
   - Serve the order to Customer
   - Process the payement.

2. Algorithm
   - Check the Customers account details and Deposit amount
   - Verify if provided account is valid and Deposit amount is greator than zero.
   - If both are valid, add deposit amount to the customer's account balance
   - Generate and provide the receipt for the transaction to the customer.

Num1 > Num2
Num2 > Num3
Num1 > Num3

Date:

2. Flowchart

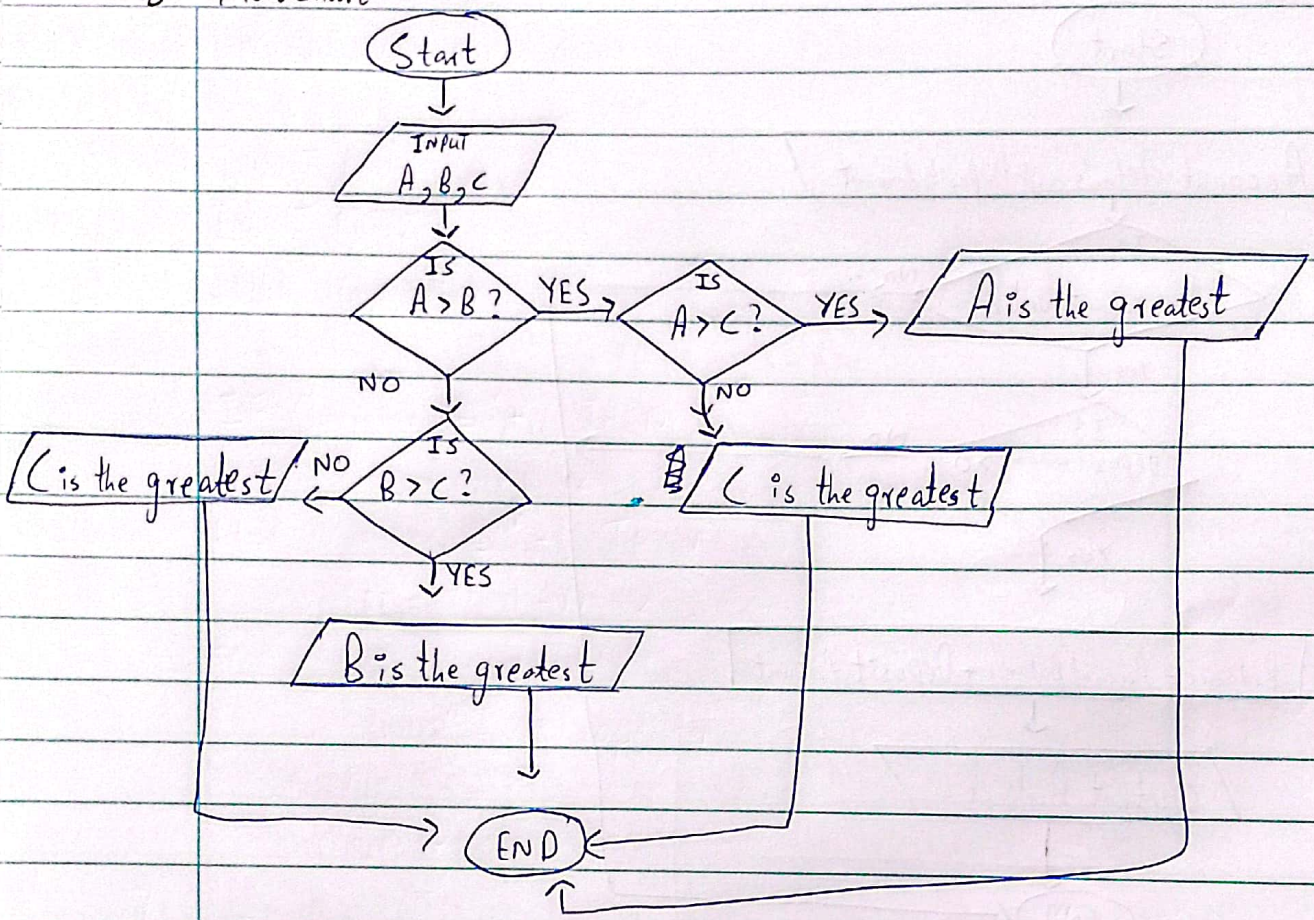


2. Psendocode

```
DECLARE Account_Number : STRING
DECLARE Deposit_Amount, Account_Balance, Current_Balance : INTEGER
  INPUT Account_Number
    IF Account_Number is valid THEN
       IF Deposit_Amount > 0 THEN
            Current_Balance = Deposit_Amount + Account_Balance
            OUTPUT "Current_Balance is" Current_Balance
       ELSE
            OUTPUT "Invalid deposit amount"
    ELSE
       OUTPUT "Invalid Account number"
       ENDIF
ENDIF
```

Date:

3. Flowchart



3. Pseudocode

```
DECLARE A, B, C : INTEGER
INPUT A
INPUT B
INPUT C
IF A > B THEN
    If A > C THEN
        OUTPUT "A is the greatest"
    ELSE
        OUTPUT "C is the greatest"
    ENDIF
ELSE
    IF B > C THEN
        OUTPUT "B is the greatest"
    ELSE
```

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OUTPUT "C is the greatest"

ENDIF

ENDIF

3. Algorithm

- Input three Numbers A, B, C
- Compare A with B
- If A > B then compare ~~it with~~ A with C if A > C then Output 'A is the greatest"
- else if A < B then compare B with C if B > C then output "B is greatest"
- else output "C is the greatest"
- else output "C is the greatest"

4.

- Ask the user to enter a number in the range 1 to 12
- If Number = 1 then output "January"
- if Number = 2 then Output "Febraury"
- if Number = 3 then Output "March"
- if Number = 4 then Output "April"
- if Number = 5 then Output "May" if 6 then Output "June"
- if " = 7 " " "July"
- if " = 8 " " "August"
- if " = 9 " " "September"
- if " = 10 " " "October"
- if " = 11 " " "November"
- if " = 12 " " "December"

Date:

5. DECLARE Num1, Num2, result : INTEGER
DECLARE Operator : CHAR

INPUT Num1
INPUT Num2
INPUT Operator

IF Operator = '+' THEN
    result = Num1 + Num2
ELIF Operator = '-' THEN
    result = Num1 - Num2
ELSE
    OUTPUT "Invalid operator"
ENDIF
OUTPUT result

7.
- Ask the user to input first number and store it as "num1"
- Ask the user to input an operator ('+', '-', '*', '/', '%') and store it as "operator"
- Ask the user to input Second Number and store it as "num2"
- If operator is '+' then result = num1 + num2
- If operator is '-' then result = num1 - num2
- If operator is '*' then result = num1 * num2
- If operator is '/' then result = num1 / num2
- If operator is '%' then result = num1 % num2
- Output the result.

9. .gitignore is used in Github repositories to specify files and directories that Git should ignore. It is essential to keep the repository clean.

Date:

10. An Algorithm is a step by step approach to solve a problem. It can be expressed using plain language. Pseudocode is a simplified way of describing an algorithm using programming like syntax to describe that problem. It makes use of control structures like IF-THEN-ELSE .... to further simplify the given problem.

6.