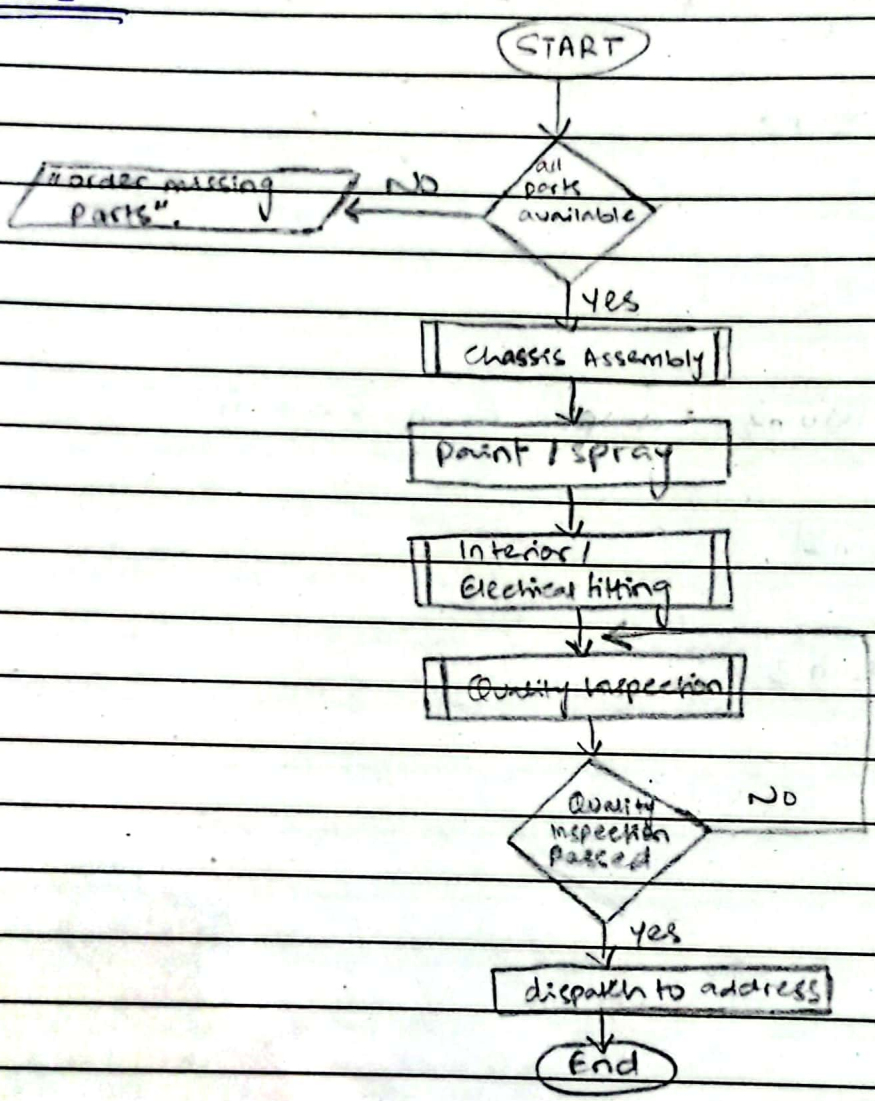
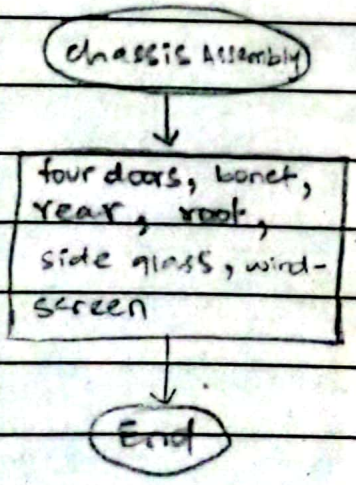
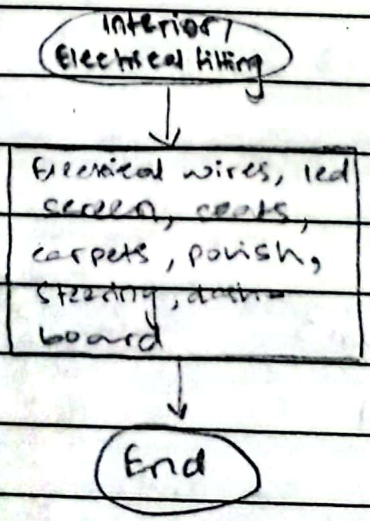
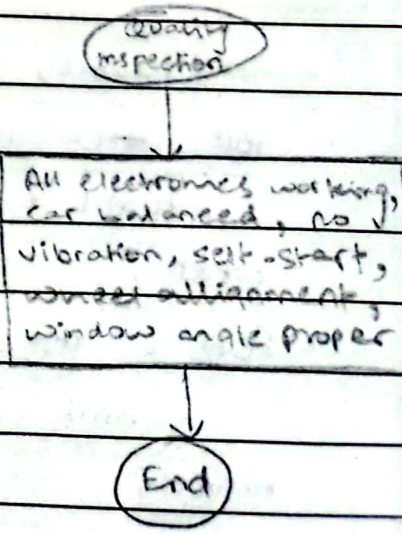
Date: _____

TASK # 1 :









Date: _____

TASK # 2 :

```
START
  INPUT  Num1, Num2, Num3
  IF   Num1 > Num2
   THEN
        Num1 > Num3
    Highest = Num1
  ELSE IF   Num2 > Num3   AND   Num2 > Num1
    THEN
        Highest = Num2
   ELSE
      Highest  =  Num3
     ENDIF
  ENDIF
  OUTPUT  Highest
END
```

TASK # 3 :

```
START
  INPUT  Num1, Num2, Num3
   FOR i ← 0  TO  Num2
     Num1 = Num1 + 1
   NEXT i
   FOR i ← 0  TO  Num3
     Num1  = Num1 + 1
   next i
  OUTPUT Num1, " sum of three numbers"
END
```

Date: _____

TASK # 4 :

- Algorithm

1. Ask user to input values of 'n' and 'Nth' number.
2. Check if 'n' is divisible by 'Nth' (i.e n %. Nth ==0)
3. If true 'Nth' is a divisor of 'n'.
4. Determine if 'Nth' is even or odd.
5. If 'Nth' is divisible by 2 (i.e Nth %. 2 ==0), then even.
6. Else 'Nth' is odd.
7. If false 'Nth' is not a divisor of 'n'.
8. Display the result

Lab Tasks : (1)

// Algorithm :

1. Take customers order (including all items and special requests)
2. Verify the order by repeating them to customer.
3. If any item not available notify the customer and return to step 1.
4. Notify the customers of the add ons you offer and tell them for extra charges if any.
5. Calculate the total amount.
6. Forward the order to kitchen.
7. Serve the food.
8. Give the bill and ask for payment method
9. Exit them with a smile and ask for feedback.

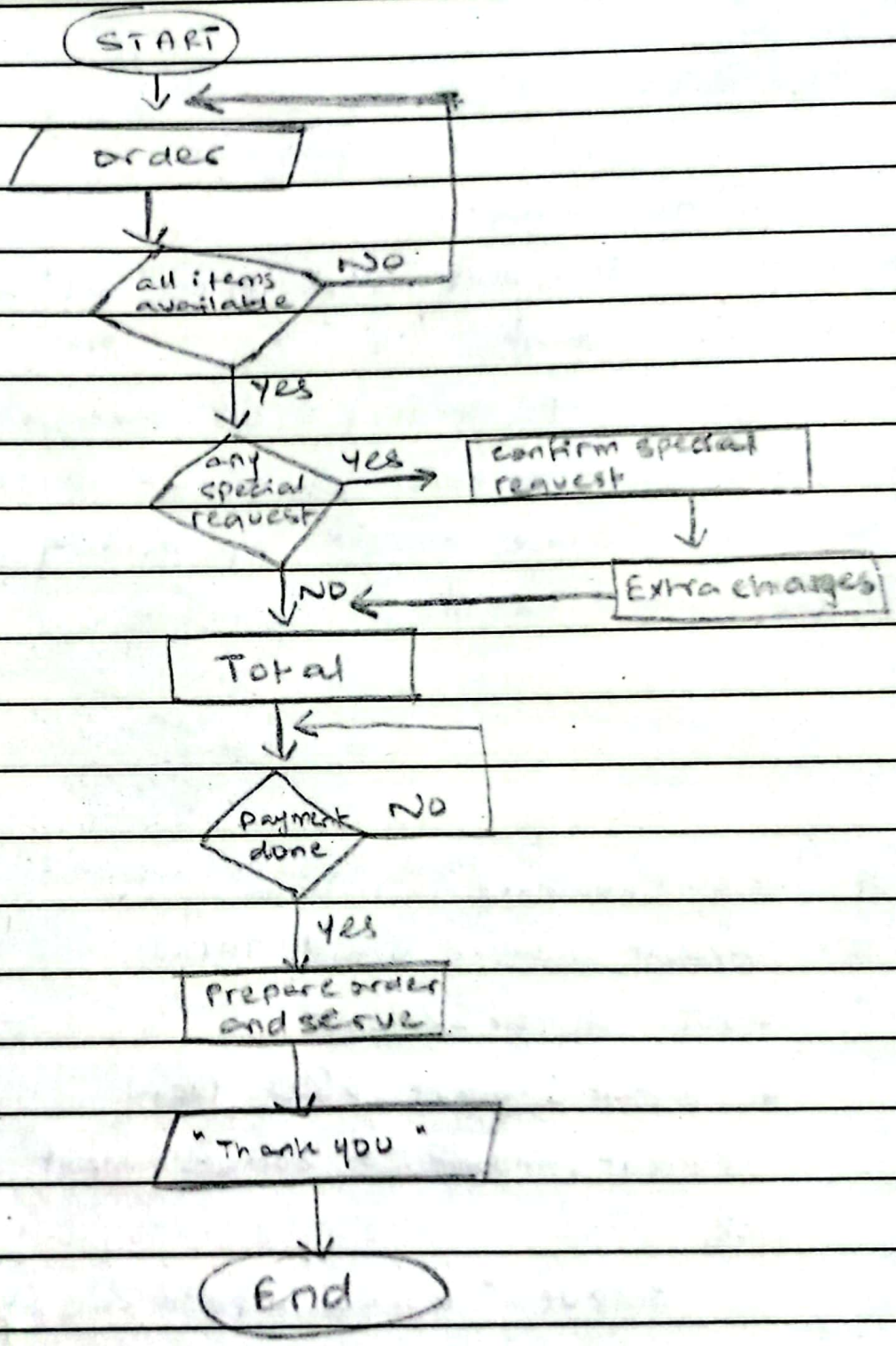
Date: _____

Pseudocode :

```
OUTPUT " welcome to the restaurant "
REPEAT
    INPUT customer_order
    VERIFY order_availability
    IF order_availability == FALSE THEN
        OUTPUT " This item not available "
    END IF
UNTIL order_availability == True
CHECK special_request
    IF special_request == True THEN
        OUTPUT " confirm the add on and additional payment "
        CALCULATE extra_charges
    END IF
    CALCULATE total_cost
    SEND order_to_kitchen
    PREPARE order
    SERVE order
    REPEAT
        OUTPUT " Total cost is ", total_cost
        PROCESS Payment
        IF Payment == FALSE THEN
            OUTPUT " payment failed "
        ENDIF
    UNTIL Payment == True
    OUTPUT " Thank you for visiting "
```

Date: _____

hart :



Date: _____

(2) Algorithm :

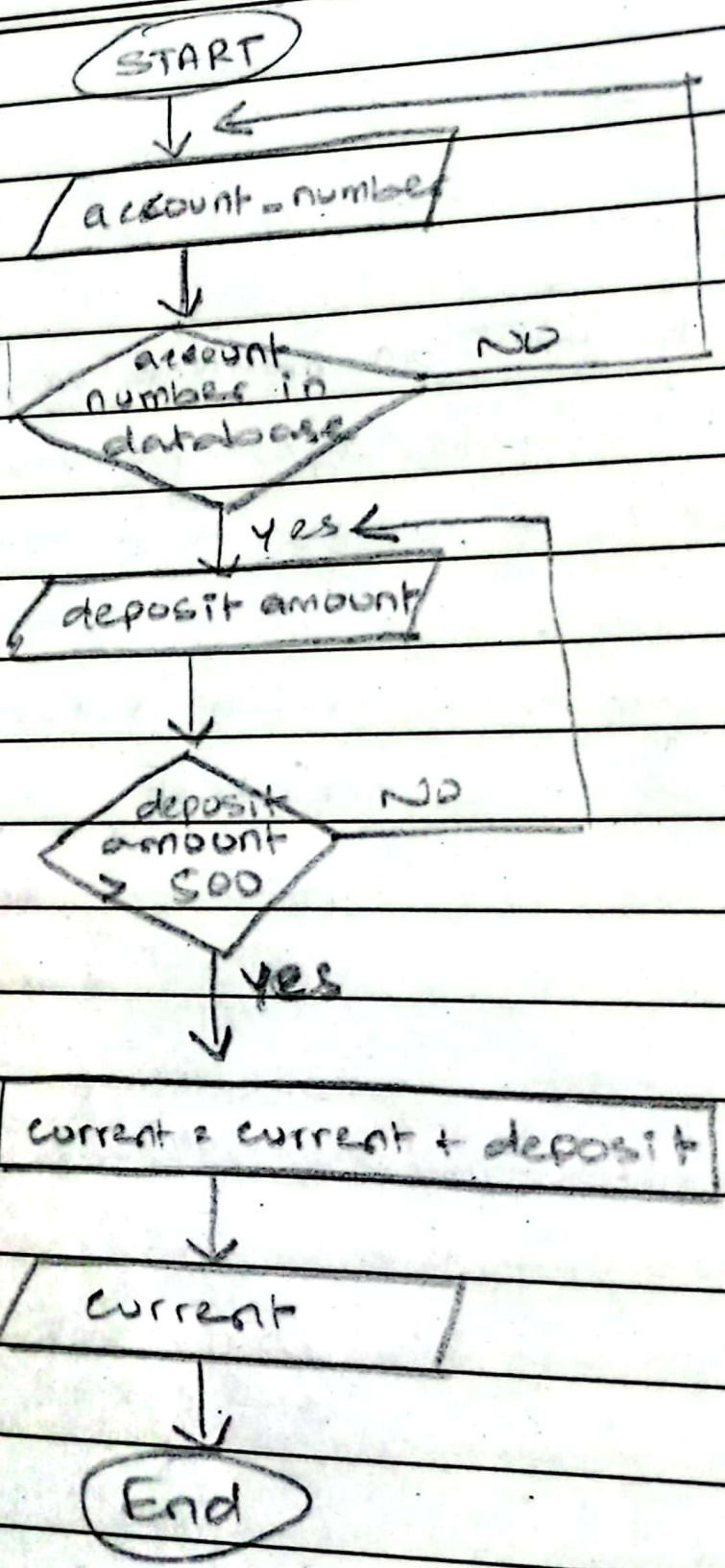
1. Input account Number
2. check it account number valid it not ask user to entre again.
3. Input deposit amount
4. If deposit amount greater R500 proceed to next step
5. Else ask user to enter an amount of 500 or more.
6. upade the balance amount by adding to current.
7. Display updated amount.

Pseudocode :

```
INPUT account_number
    IF account_number valid THEN
    INPUT deposit_amount
    IF deposit_amount > 500 THEN
      current_amount = current_amount + deposit_amount
    ELSE
        OUTPUT " Invalid deposit amount "
    END IF
ELSE
    OUTPUT " Invalid account number "
END IF
```

Date:

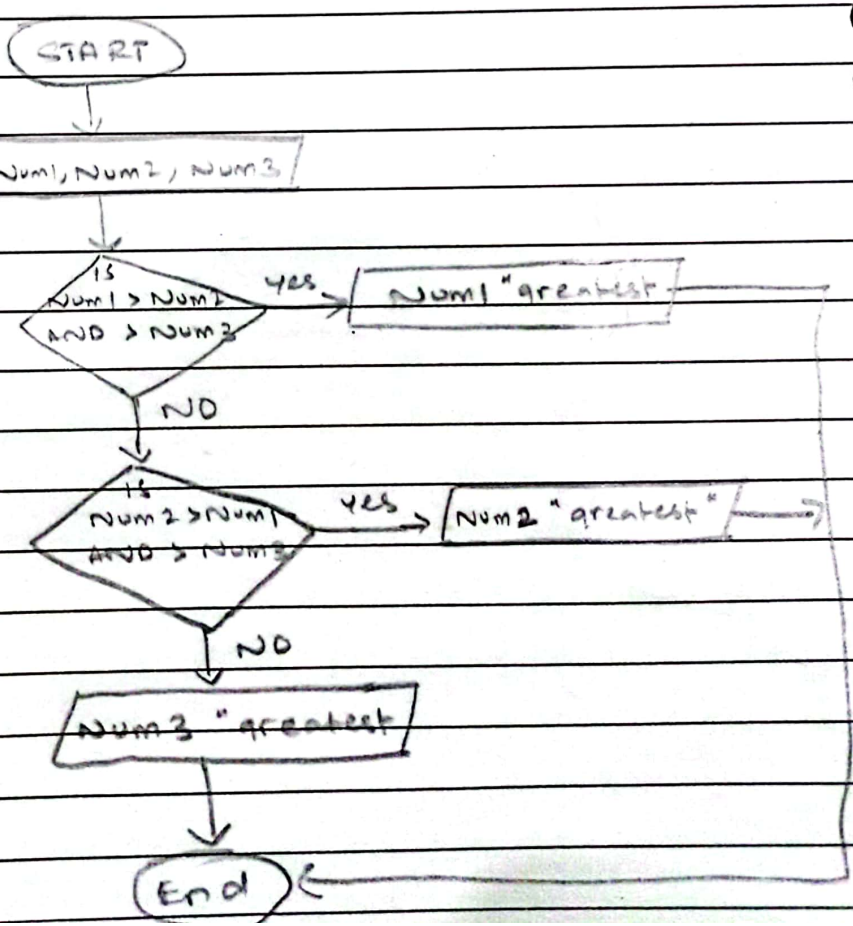
Flowchart :



(3) Algorithm :

1. Input three numbers
2. Compare Number 1 with other two numbers
3. If it is greater than both display Num1.
4. ELSE see it Num 2 is greater than Num 1 and Num 3.
5. Display Num 2
6. If both Num1 and Num return false
7. Display NUM 3 as the greatest.

Flowchart :



Date: _____

(4) Algorithm :

1. Declare a dictionary 'months' having keys 1 to 12 and corresponding month names as values.
2. Ask user to enter a number
3. If number is between 1 to 12.
4. Display corresponding month name.
5. Else display " invalid number".

(5) Pseudocode :

```
INPUT NUM1, NUM2, operator
IF operator == '+' THEN
    result = NUM1 + NUM2
ELSE IF operator == '-'
    result = NUM1 - NUM2
ELSE
    OUTPUT " operator invalid "
    result = None
OUTPUT "The result is", result
```

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(6) (Already done as example task # 1)

(7) Algorithm :

1. Display " simple calculator "
2. Display " operators +, -, *, /, % "
3. Ask user to input a number.
4. Ask user to input a suitable operator
5. Ask user to input second Number.
6. If ~~xxx~~ operator not in dictionary
7. Display "invalid operator "
8. Else if operator is '+'
9. Then take sum of the two numbers.
10. If operator is '-'
11. Take difference of two Numbers
12. If operator is '*'
13. Take product of two Numbers
14. If operator is '/'
15. Calc the Quotient of ~~xxx~~ Num1 / Num2.
16. If operator is '%'
17. Take the remainder of Num1 divided by Num2.
18. Display error if operator is '/' or '%' and Num2 is zero.
19. Display the results.