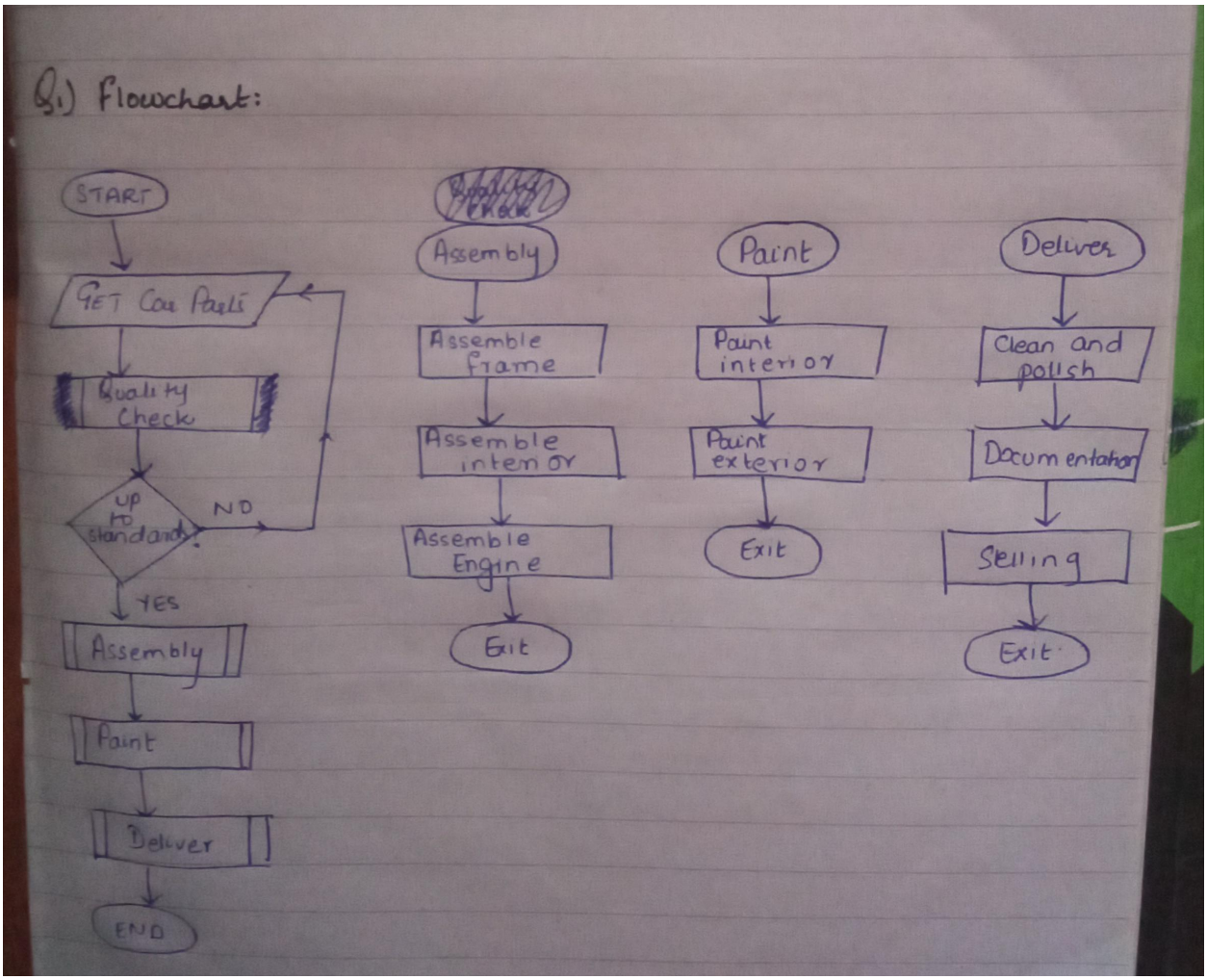
Q1) Flowchart:



Find the maximum number in any of three variables.

```
START
    PRINT (“enter three numbers”)
    GET a
    GET b
    GET b
    IF a ≥ b AND a ≥ c THEN
        PRINT (“maximum is”, a)
        ELSE IF b ≥ a AND b ≥ c THEN
            PRINT (“maximum is”, b)
            ELSE PRINT (“maximum is”, c)
END
```

Take three variables as input and add them without using the + operator (Use your head for this

```
START
    PRINT (“enter 3 numbers to add”)
    GET num1
    GET num2
    GET num3
    sum = – num1 – num2 – num3
    sum = sum * (-1)
    PRINT sum
END
```

Create a small calculator which only does '+' or '-'OperaϴOns. (Hint: Take three variable inputs with One being used for the operator)

```
START
    PRINT ("enter numbers")
    GET a
    GET b
    PRINT ("enter operation to perform")
    GET op
    IF op == "+" THEN
        result = a + b
        PRINT result
    ELSE IF op == "-" THEN
        result = a – b
        PRINT result
    ELSE PRINT ("invalid operator")
END
```

Implement an algorithm for determining if an Nth is a divisor of an n Number (i.e. 2 is a divisor of 6). If so, determine if it's an even number or odd number as well.

- Take a number from the user as input
- Store it in variable a
- Take divisor as input
- Store in variable b
- Divide a by b
- If remainder is 0, then b is a divisor of a
- If b is a divisor, then divide a by 2

- If remainder is 0, then a is even
- Else a is odd
- Print appropriate message

Implement an algorithm where the user enters a number, and an appropriate month is displayed.

- Take a number from user as input
- Repeat step 1 if number is not between (including) 1 and 12
- If number is 1, display January (first month)
- If number is 2, display February
- Do the same for numbers till 12 and months till December

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

- Take 2 numbers as input
- Store them in the variables num1 and num2
- Take operator as input
- Store in variable op
- Repeat step 3 if op is a symbol other than + - * / %
- If op is + , result = num1 + num2
- If op is -, result = num1 – num2
- If op is * , result= num1 * num2
- If op is / , result = num1 / num2
- If op is % , result = num1 % num2
- Print result