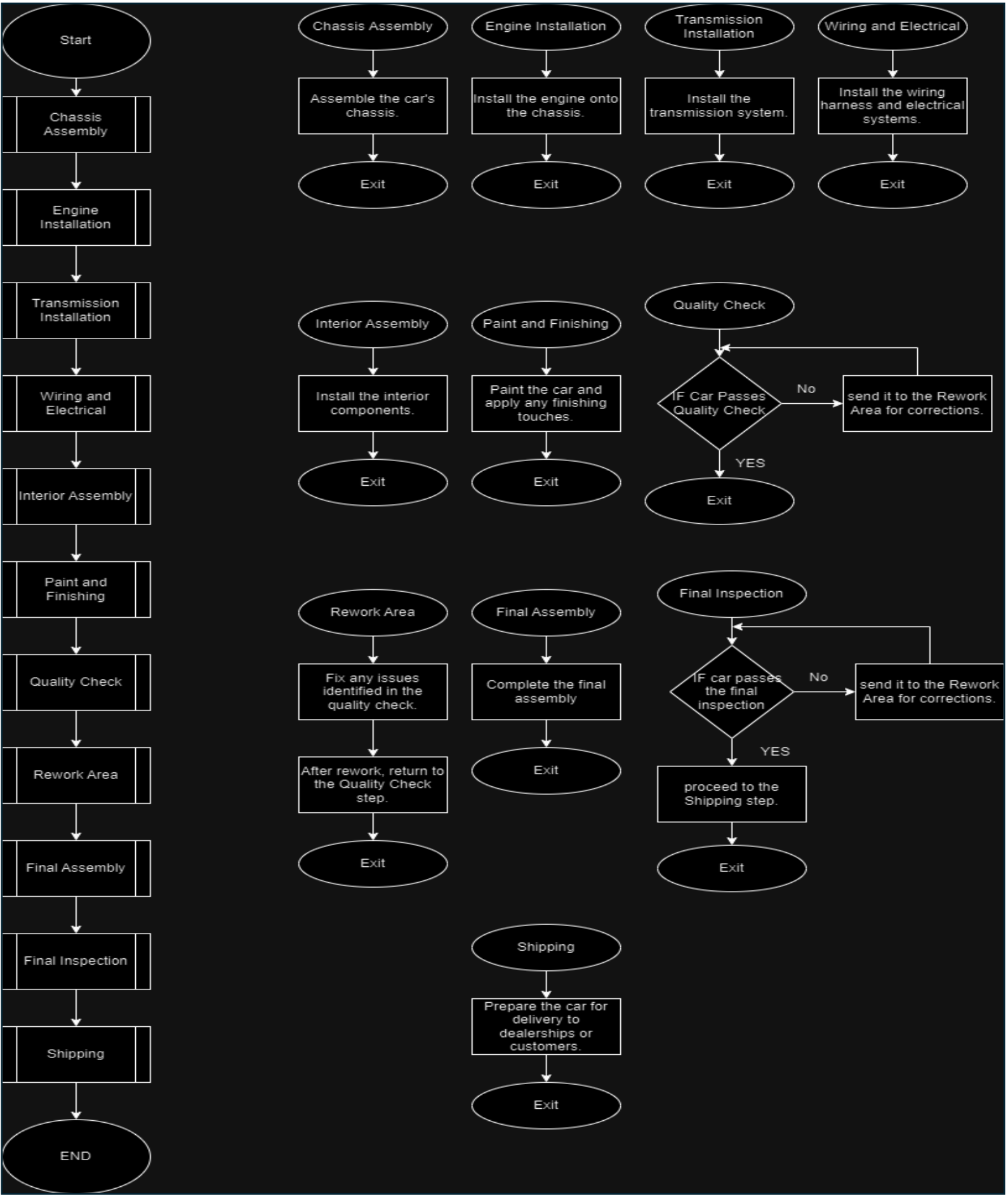
Flowchart


Start
Chassis Assembly
Engine Installation
Transmission Installation
Wiring and Electrical
Interior Assembly
Paint and Finishing
Quality Check
Rework Area
Final Assembly
Final Inspection
Shipping
END
Chassis Assembly
Assemble the car's chassis.
Exit
Engine Installation
Install the engine onto the chassis.
Exit
Transmission Installation
Install the transmission system.
Exit
Wiring and Electrical
Install the wiring harness and electrical systems.
Exit
Interior Assembly
Install the interior components.
Exit
Paint and Finishing
Paint the car and apply any finishing touches.
Exit
Quality Check
IF Car Passes Quality Check
No
send it to the Rework Area for corrections.
YES
Exit
Rework Area
Fix any issues identified in the quality check.
After rework, return to the Quality Check step.
Exit
Final Assembly
Complete the final assembly
Exit
Final Inspection
IF car passes the final inspection
No
send it to the Rework Area for corrections.
YES
proceed to the Shipping step.
Exit
Shipping
Prepare the car for delivery to dealerships or customers.
Exit

Pseudocode

1.

START

PRINT “Enter first Number”

INPUT A

PRINT “Enter second Number”

INPUT B

PRINT “Enter third Number”

INPUT C

MAX = A

IF B > MAX Then

MAX = B

ENDIF

IF C > MAX Then

MAX = C

ENDIF

PRINT “The Maximum Number is”

OUTPUT MAX

END

2.

START

PRINT “Enter first Number”

INPUT A

PRINT “Enter second Number”

INPUT B

PRINT “Enter third Number”

INPUT C

NEG_A = -A

NEG_B = -B

NEG_C = -C

SUM = -(NEG_A - NEG_B - NEG_C)

PRINT “The Sum is”

OUTPUT SUM

END

3.

START

PRINT “Enter first Number”

INPUT num1

PRINT “Enter second Number”

INPUT num2

PRINT “Enter your Operator: ‘+’ or ‘-‘ ”

INPUT OPERATOR

RESULT = 0

IF OPERATOR == '+' THEN

RESULT = num1 + num2

ELSE IF OPERATOR == '-' THEN

RESULT = num1 - num2

ELSE

OUTPUT "Invalid operator"

ENDIF

OUTPUT RESULT

END

Algorithm

1.

1: Ask the user to enter the number n.

2: Ask the user to enter the divisor Nth.

3: Check if Nth is a divisor of n by the following two steps:

If n % Nth == 0, proceed to Step 4.

If n % Nth != 0, display that Nth is not a divisor of n and end the algorithm.

4: Determine if Nth is an even or odd number by the following steps:

If Nth % 2 == 0, display that Nth is an even number.

If Nth % 2 != 0, display that Nth is an odd number.

5: Output the result:

If Nth is a divisor of n, display that Nth is a divisor of n and whether it is even or odd.

2.

1: Ask the user to enter a number between 1 and 12 (inclusive).

2: Read the entered number and store it in a variable, lets suppose monthNumber.

3: Check if monthNumber is within the valid range (1 to 12) by the following method:

> **If monthNumber is less than 1 or greater than 12, display an error message indicating that the input is invalid and end the algorithm.**

4: Based on the value of monthNumber, determine the corresponding month by the following steps:

> **If monthNumber is 1, set monthName to "January".**
>
> **If monthNumber is 2, set monthName to "February".**
>
> **If monthNumber is 3, set monthName to "March".**
>
> **If monthNumber is 4, set monthName to "April".**
>
> **If monthNumber is 5, set monthName to "May".**
>
> **If monthNumber is 6, set monthName to "June".**
>
> **If monthNumber is 7, set monthName to "July".**
>
> **If monthNumber is 8, set monthName to "August".**
>
> **If monthNumber is 9, set monthName to "September".**
>
> **If monthNumber is 10, set monthName to "October".**
>
> **If monthNumber is 11, set monthName to "November".**
>
> **If monthNumber is 12, set monthName to "December".**

5: Display the monthName.

3.

1: Ask the user to enter the first number and store it in a variable, lets suppose num1.

2: Ask the user to enter the second number and store it in a variable, lets suppose num2.

3: Ask the user to enter the operation they want to perform (+, -, *, /, %) and store it in a variable, lets say operation.

4: Check the value of operation and then perform the corresponding calculation shown in the following:

If operation is +:

Calculate the sum: result = num1 + num2

Display the result.

If operation is -:

Calculate the difference: result = num1 - num2

Display the result.

If operation is *:

Calculate the product: result = num1 * num2

Display the result.

If operation is /:

If num2 is not zero, calculate the quotient: result = num1 / num2

Display the result.

If num2 is zero, display an error message indicating division by zero is not allowed.

If operation is %:

If num2 is not zero, calculate the remainder: result = num1 % num2

Display the result.

If num2 is zero, display an error message indicating modulus by zero is not allowed.

5: If the operation is other than these inputs(+, -, *, /, %), display an error message indicating an invalid operation.