**Objective 1: Flowchart**

Provide the material required for the car ig engine , body parts, lights etc.

Input the model of the car

If everything is available

Choose another model

Choose color of the car

yes

Show color options

no

If costumer wants to add options

Print Price AND Confirm Assembly

Price =Model Price+ GST%\*Model price+ (Amount of options added)

Show options and add them.

yes

no

Assemble the car

**Objective 3: Algorithm**

**Task 1**

**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.**

***Solution:***

1: Ask the user to enter the number n.

2: Ask the user to enter Nth divisor.

3: If n/N leaves remainder = 0 means it is the divisor of the desired number else it is not the divisor.

4: Now if n/2 leaves remainder = 0 means it is an even no else odd number.

**Task 3**

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

***Solution:***

1: Input the numbers from user.

2: Input Operators from user in between the numbers.

3: Set + as add, - as subtract, \* as multiply, / as divide, % as remainder.

4: If user uses + operator then add the numbers.

5: If user uses - operator then subtract the numbers.

6: If user uses \* operator then multiply the numbers.

7: If user uses / operator then divide the numbers.

8: if user uses % operator give remainder.

5: Print the answer for the user on the screen by using DMAS rule.

***Objective 2:*PSEUDOCODE**

* Task 03

Create a small calculator which only does ‘+’ or ‘-‘Operations. (Hint: Take three variable inputs with

one being used for the operator)

START

//Input/Output

Input number 1

Input Operator

Input number 2

//Processing

If ‘+’ is used as an operator then

Add number 1 and number 2

Else if ‘–‘ is used as an operator then

Subtract number 2 from number 1

//Output

Print answer

END

TASK 02

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

START

//Input/Output

Input number 1

Input number 2

Input number 3

//Processing