PROGRAMMING FUNDAMENTALS LAB TASK # 2

FLOW CHART

```
                    ( start )
                        |
                        v
           / collect the available parts /
                        |
                        v
           [ look for remaining parts ]
                        |
                        v
           < you find all the parts >  ----->  [ Keep searching ]
                        |
                        v
              / Collected parts /
                        |
                        v
               [ Assemble ]  <-----------+
                        |                 |
                        v              [ false ]
               < Run the car >  ---------+
                        |
                      true
                        |
                        v
             / Car is assemled /
                        |
                        v
                    ( end )
```
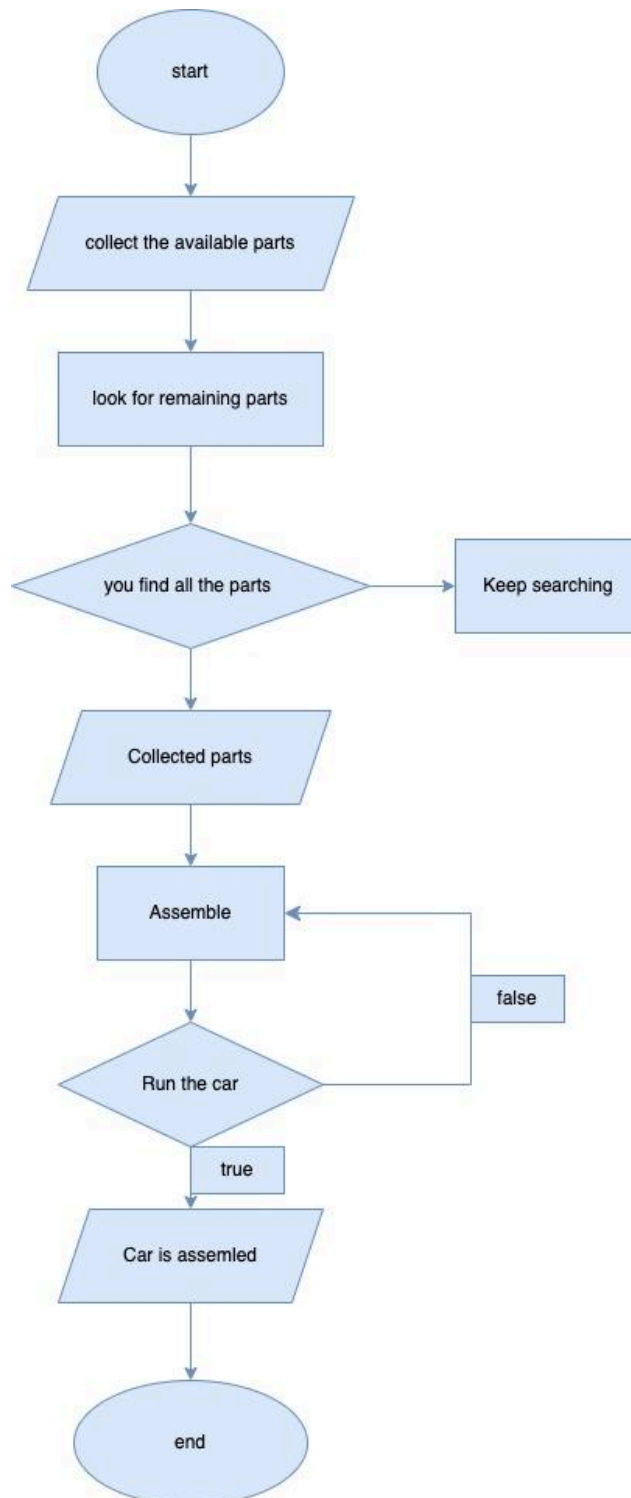
PSEUDOCODE

Find the maximum number in any of the three variables.

```
START
INPUT n1
INPUT n2
INPUT n3

if n1 > n2 and n1 > n3
    print("n1 is the greater number")
else if n2 > n1 and n2 > n3
    print("n2 is the greater number")
else
    print("n3 is the greater number")

END
```

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

```
START
input n1
input n2
input n3

sum= (n1) - (-n2) -(-n3)
print(sum)
```

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

```
START
INPUT n1
INPUT n2
INPUT operand '+' or '-'

SET sum = 0
SET difference = 0

if operand == '+'
```

```
    sum = n1 + n2
    print(sum)
else if operand == '-'
    difference = n1 - n2
    print(difference)

END
```

ALGORITHM

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.

Ask user to enter Nth
Ask user to enter n number
SET solution to 0

If Nth is not equals to 0 SET solution = n / Nth

If solution is an integer and greater than 0
   Then check if solution/ 2 is an integer
   If yes than Print "Nth is the divisor of n and it is an even number"

   Else sol/2 is a float then Print "Nth is the divisor of n but it is an odd number"

Else Print False

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

SET
1 = "Jan"
2 = "Feb"
3 = "Mar"
4 = "Apr"
5 = "May"
6 = "Jun"
7 = "Jul"
8 = "Aug"
9 = "Sep"
10 = "Oct"
11 = "Nov"
12 = "Dec"

Ask user to enter a number between 1 - 12 = n

if number == n
   print(value of n)

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

Ask user to enter a number n1
Ask user to enter a number n2
Ask user to enter an operator.

If operator == '+' print (n1 + n2)
Else if operator == '-' print (n1 - n2)
Else if operator == ' * ' print(n1 * n2)
Else if operator == '/' print (n1 / n2)
Else print (n1 % n2)
Exit