**PF Lab Task 2**

**1. You are working at Toyota Indus Motors and want to assemble a car. Design a flowchart with proper process modules and decision structures to replicate a pipeline production.**

Obtain parts for assembly

IF all parts are available

Assemble interior

Install the engine

Assemble the parts

Check if the car is assembled

Working

Car goes for sale

**2. Find the maximum number in any of any three variables.**

START

INPUT n1, n2, n.3

If n1>n2 AND n1>n3 THEN

PRINT n1 is maximum

ELSE IF n2>n1 AND n2>n3 THEN

PRINT n2 is maximum

EISE

PRINT n3 is maximum

END IF

END

**3. Take 3 variables as input and add them without using + operator**

START

INPUT n1,n2,n3

SET sum=0

SET sum=sum-(-num 1)

SET sum = sum-(-num2)

SET sum=sum - (-num3)

PRINT The sum of three numbers is

DISPLAY sum

END

**4. Create a small calculator which only does ‘+’ or ‘-‘Operations. (Hint: Take three variable inputs with one being used for the operator)**

START

INPUT n1,n2

DISPLAY Enter the operator

INPUT op

IF op= + THEN

COMPUTE sum=n1+n2

PRINT sum

ELSE IF op= - THEN

COMPUTE difference=n1-n2

PRINT difference

ELSE

PRINT Invalid operator

END IF

END

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

If the user enters 1 then display January

If the user enters 2 then display February

If the user enters 3 then display March

If the user enters 4 then display April

If the user enters 5 then display May

If the user enters 6 then display June

If the user enters 7 then display July

If the user enters 8 then display August

If the user enters 9 then display September

If the user enters 10 then display October

If the user enters 11 then display November

If the user enters 12 then display December

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

Ask the user to enter the first number

Ask the user to enter the operator number

Ask the user to enter the second number

If the user enters the operator +, add first and second number

If the user enters the operator -, subtract first number from the second number

If the user enters the operator \*, multiply first and second number

If the user enters the operator /, divide first number by second number