***Flowcharts:***

***Pseudocodes:***

Question 1:

START

INPUT variable1

INPUT variable2

INPUT variable3

IF variable1 >= variable2 THEN

max1 = variable1

ELSE

max1 = variable2

END IF

IF max1 >= variable3 THEN

max = max1

ELSE

max = variable3

END IF

OUTPUT max

END

Question 2:

START

INPUT Num1, Num2, Num3

FOR i 🡨 0 TO Num2 DO

Num1 += 1

Next i

FOR i 🡨 0 TO Num3 DO

Num1 += 1

Next i

OUTPUT Num1, “sum of three numbers”

END

Question 3:

START

INPUT num1

INPUT num2

INPUT operator

IF operator = '+' THEN

result = num1 + num2

ELSE IF operator = '-' THEN

result = num1 - num2

ELSE

OUTPUT "Invalid operator"

END IF

OUTPUT result

END

***Algortithms :***

Question 1:

1. Ask the user to input values of “n” and “Nth” number.
2. Check if “n” is divisible by “Nth” (i.e. n % 2 == 0)
3. If true “Nth” is a divisor of “n”
4. Determine if “Nth” is even or odd.
5. If “Nth” is divisible by 2 (i.e. n % 2 == 0), then even
6. Else “Nth” is odd
7. If FALSE “Nth” is not a divisor of “n”
8. Display the result

Question 2:

1. Ask the user to input an integer
2. Sort the month of the year and assign them each with consecutive inter values from 1-12
3. Compare the number entered with assigned number of the month
4. If number == MonthNumber
5. Display month of the respective number.

Question 3:

1. Display “Simple Calculator”
2. Display “Operators +, -, \*, /, %”
3. Ask the user to input a number.
4. Ask the user to input a suitable operator
5. Ask the user to input second number
6. IF operator not in dictionary.
7. Display “Invalid Operator”
8. If Operator is “+”
9. Add the two numbers
10. If operator is “-“
11. Subtract num2 from num1
12. If operator is “\*”
13. Multiply the two numbers
14. If operator is “/”
15. Calculate the quotient of num1/num2
16. If the operator is “%”
17. Calcualte the remainder of num1/num2
18. Display error if operator is “/” or “%” and num 2 is zero
19. Display result