**Use of Routines (Exercises)**

Practice using Routines

For the following exercises, you must get each step checked by your tutor before progressing:

1. Define and code a procedure called “OutputMessage” that takes no parameters and performs one task - outputting the text: “This is a procedure call”. Call this from the Main Routine.
2. The following program is to model a basic calculator.
   1. Declare four local variables within the Main routine (num1, num2, total, operator)
   2. Write a Function called getValidNumber() – this will contain no parameters, but the purpose is to return a valid number that is an interget within the range of 0 to 100 inclusively.
   3. From the Main routine – use the getValidNumber twice. Once for num1 and once for num2. Output these numbers to the Console to show that this works.
   4. Produce four routines – one for each of addition, subtraction, multiplication and division. The routines will receive two parameters – num1 and num2.
      1. Within the routines calculate the total and return this to the calling routine.
   5. Code the Main Routine so that depending upon what operator the user chooses it will use the specific routine. E.g. if they enter “+” then it will call the Addition Routine.
   6. Ensure the program continually loops allowing the user to perform many calculations.