**Program 1**:

METHOD find\_avg

BEGIN

PRINT “Please enter five numbers: “

FOR each of the five numbers

READ input\_value

CALL min\_max

sum ← sum + input\_value

ENDFOR

avg ← sum / 5.0

PRINT “Average of all numbers: ” + avg

PRINT “Minimum number: “ + min

PRINT “Maximum number: “ + max

END find\_avg

METHOD min\_max

BEGIN

FOR number of values; runs < 4; runs++

min ← input\_value

max ← input\_value

IF runs == 0

RETURN

ELSEIF runs > 0 AND runs < 4

IF min > input\_value

min ← input\_value

ELSEIF max < input\_value

max ← input\_value

ENDIF

ENDIF

ENDFOR

END min\_max

**Program 2**:

METHOD evens

BEGIN

PRINT “Please input a stopping point: “

READ stop\_point

PRINT “Stopping point: “ + stop\_point

IF stop\_point is even

x ← stop\_point

FOR n ← 1; n < x; n++

sum ← sum + 2^n

ENDFOR

ENDIF

ELSEIF stop\_point is odd

x ← stop\_point

x ← x - 1

FOR n ← 1; n < x; n++

sum ← sum + 2^n

ENDFOR

ENDIF

PRINT “Sum of all evens: “ + sum

END evens

**Program 3**:

METHOD age\_in\_20

BEGIN

PRINT “Please enter your age: “

READ age

PRINT “Your age today = “ + age

PRINT “Your age in 20 years = “ + (age + 20)

END age\_in\_20

**Program 4**:

METHOD colours

BEGIN

PRINT “Please pick a number: “

READ num

PRINT “You entered: “ + num

IF num >= 0 AND >= 10

PRINT “Your colour: Blue”

ELSEIF num > 10 AND <= 20

PRINT “Your colour: Red”

ELSEIF num > 20 AND <= 30

PRINT “Your colour: Green”

ELSEIF num < 0 OR > 30

PRINT “Your colour: This is not a correct colour option.”

ENDIF

END colours

**Program 5**:

METHOD order\_total

BEGIN

READ fries

READ burger

READ drink

PRINT “Fries price: “ + fries

PRINT “Burger price: “ + burger

PRINT “Drink price: “ + drink

tax ← (fries+burger+drink)/.10

PRINT “Tax: “ + tax

PRINT “Total: “ + (fries+burger+drink+tax)

END order\_total