# Pseudocode Examples

**Example 1:** Write pseudocode (in plain English) to read three positive numbers and printout their average.

1. Read the numbers from the user: say X, Y, Z
2. Find the total of the numbers : Total = X+Y+Z
3. Divide the total by 3 and save it in Result: Result = Total/3
4. Print out Result

**Example 2:** Write pseudocode (in syntax-like) to read three positive numbers and printout their average.

```
METHOD FIND_AVERAGRE    // using loop
BEGIN
     Set average = 0
     FOR (I = 1 to 3)
          READ input_value     // read from the user
           set sum = sum + input_value
     ENDFOR
     // compute and print the average
     Set average = sum / 3.0
     Printout average
END FIND_AVERAGRE
```

**Example 3:** Write pseudocode (in plain English) to read three numbers and find the maximum value.

1. Read the numbers: say X, Y, Z
2. Set Max to the first value: Max = X
3. Compare Max to Y and pick the maximum value: If Max > Y, then Max = Y
4. Compare Max to Z and pick the maximum value: If Max > Z, then Max = Z
5. Print out Max

**Example 4:** Write pseudocode (in plain English) to read an array of grades and print out their total.

1. Read the array of grades: Grades
2. Define and set Total to 0: Total = 0
3. Loop: for every value in the array, say Grades[i] and set Total = Total + Grades[i]
   For i = 1 to array_size
       Total = Total + Grades[i];
4. Print out Total

**Example 5:** Write pseudocode (in syntax-like) to read ten numbers and find the maximum value.

```
METHOD FIND_MAX
BEGIN
   READ input_value          // from user
   Set max = input_value   // assume first value is the max
   FOR (I = 1 to 9)
        READ input_value   // from user
        IF (max < input_value)
              set max = input_value
        ENDIF
    ENDFOR
    Printout max
END FIND_MAX
```

**Example 6:** Write pseudocode (in syntax-like) to read and store grades into an array (assume array size is 30), then print out their total followed by their average.

```
METHOD GRADES
BEGIN
    // read the grades into the array
    Define Array grades[30]
    FOR (I = 1 to 30)
        READ grade_value   // read from user
        Set A[I] = grade_value
    ENDFOR

    // add up all grades
    Set total = 0
    FOR (I = 1 to 30)
        set total = total + A[I]
    ENDFOR

    // determine their average
    Set average = total / 30.0
    Printout total
    Printout average
END GRADES
```