# DESIGN

Main

# Initialize variables

# Scanner input

# String providedValue

# int counter, positive, negative, total

# double average

# output: “Enter an integer, the input ends if it is 0:”

# get input

# While input is not “0”:

# output: “No terminator was provided. Continue entering input”

# providedValue = provided value + input

# increment counter

# if counter == maxint

# output: “You have reached the maximum number of values. Terminating input”

# input = 0

# for loop – each item in providedValue split by “ “

# if item is not a digit, exit loop

# if item is 0, exit loop

# if item < 0, increment negative

# if item > 0, increment positive

# total = total + item

# average = total / (positive + negative)

# if total == 0: Output: “No numbers were entered except 0”

# else:

# Output: “Number of positives” + positive

# Output: “Number of negatives” + negative

# Output: “Total” + total

# Output: “Average” + average

Flowchart

A screenshot of a computer

Description automatically generated

# TEST PLAN

|  |  |  |
| --- | --- | --- |
| Test # | Input | Expected Output |
| 1 | 1 2 -1 3 0 | The number of positives is 3  The number of negatives is 1  The total is 5.0  The average is 1.25 |
| 2 | 0 | No numbers are entered except 0 |
| 3 | 2 3 4 5 0 | The number of positives is 4  The number of negatives is 0  The total is 14  The average is 3.5 |
| 4 | -4 3 2 -1 0 | The number of positives is 2  The number of negatives is 2  The total is 0  The average is 0.0 |

# SCREEN SHOTS

1

A blue screen with white text

Description automatically generated

2

A screen shot of a computer

Description automatically generated

3

A blue screen with white text

Description automatically generated

4

A blue screen with white text

Description automatically generated