

#### Number 1

Set a variable named largest and sets it to zero

while TRUE:

Ask the user to "Enter a positive number (zero to stop): "  
Read the user input and store it in variable number

If the number is equal to zero then:  
stop asking for numbers

If the number is greater than the largest then:  
Set largest is equal to the number

print "The largest number entered is: " and the value of largest

#### Number 2

Ask the user to enter their name, read it into first\_name,

print "Hello, World " followed by first\_name

#### Number 3

Set a variable named sum and set it to zero

Set a variable named count and set it to zero

while TRUE:

Ask the user with "Enter an integer (or type zero to stop): "  
Read number

If the number is not equal to zero then:  
Sum is equal to sum plus number  
Count is equal to count plus one

If the count is greater than zero then:  
The average is equal to sum divided by count  
print "The average is; ", average

else:  
print "No numbers were entered"

#### Number 4

Create an empty list called grocery\_list

Create an empty list called remaining\_items

While TRUE:

Ask user: "Enter a product to add to the grocery list: "  
Read product

If product is not equal to "DONE" then:

Add product to grocery\_list

UNTIL product = "DONE"

While TRUE:

Ask user: "Enter a product you have bought:"

Read bought\_item

If bought\_item is not equal to "DONE" then:

If bought\_item exists in grocery\_list then:

Remove bought\_item from grocery\_list

UNTIL bought\_item = "DONE"

Sort grocery\_list in alphabetical order

Print "Products still left to buy:"

FOR each product in grocery\_list:

Print product

Number 5

X is equal to the request an integer from the user

Y is equal to the request an integer from the user

Compute S to be equal to  $X + Y$

Compute A to be equal to  $S / 2$

Compute P to be equal to  $X \times Y$

print "S (Sum) =", S

print "A (Average) =", A

print "P (Product) =", P