# Processing items in a list

1. Open IDLE, create a new file. Call it **processing\_items.py** Copy the following into the new file: **(do not copy the line numbers)**

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| 1  2  3  4  5  6  7  8  9  10  11  12  13  14  15  16  17  18  19  20  21  22 | inventory = ["staff", "hat", "shoes", "bread", "potion"]  print (inventory)  print (len(inventory))  input ("press any key to continue\n")  item = "bread"  if item in inventory:  inventory.remove(item)  print (inventory)  input ("press any key to continue\n")  for item in inventory:  print (item, end=", ")  input ("\npress any key to continue\n")  scores = [70, 80, 90, 100]  total = 0  for values in scores:  total += values  print (f"\nThe total of the scores in a list, using a for loop is: {total}")  input ("press any key to continue\n") |

1. What does the code on line 3 do?

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1. What does the code from lines 6 to 9 do? Explain.

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1. What is the difference in the result of the print statement on line 9 and the print statement, in the **for** loop, on line 13?

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1. What does the code on lines 15 to 19 do? Explain in detail.

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1. Why do you need the **\n** at the beginning of the print statement? (If you don’t know, remove it, and re-run the code).

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1. Add the following code to the file.

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| 23  24  25  26  27  28  29 | # we will use the scores list from line 16  total = 0  i = 0  while i < len(scores):  total += scores[i]  i += 1  print (f"The total of the scores in a list, using a while loop is: {total}") |

What does this section of code do? Explain in detail.

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1. Which method of looping through a list is the easiest to use: a **for** loop or a **while** loop? Explain.

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