Question

A programmer has been asked to write a program that will repeatedly ask the user to enter a single 'shopping list item' and add the inputted item(followed by a space), to a variable called shopping_list . The loop will end when the user enters the word 'stop', after which the program will output the contents of the variable.

Write an algorithm in pseudocode using a loop, which will perform the logic above.

Answer

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There are always different ways to solve a problem. This algorithm is just an example. What is important is that the logic is correct!

LOGIC:
-Create a variable called shopping_list and initialise it as an empty string
-Create a variable called item and initialise it as an empty string
-Start a while loop with the condition 'while item != "stop"'
-Inside the loop the:
  -Receive input from user
  -Concatenate item with contents of shopping_list and a space
-Display shopping_list

EXAMPLE ALGORITHM:

```
shopping_list = ""
item = ""
while item != "stop"
    item = input("Enter a shopping list item")
    shopping_list = shopping_list + item + " "
print(shopping_list)
```

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