# 12DGT Python Documentation - Freddie’ Fast Fish

### Scenario

Freddy's Fast Fish wants to computerise their phone orders. Specifically, they want to be able to enter the Customer Details, Fish and Chip Orders, Cooked or Frozen, for Pick-up or Delivery options into a computer program and have it process and display the Delivery Details, Itemised Order, and Total Cost.

Phone orders generally consist of several kinds of Fish items.

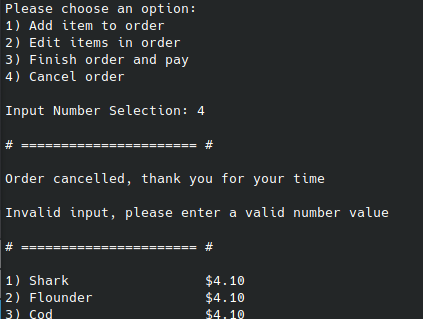
There are 12 types of fish:  
6x $4.10 Fish: Shark, Flounder, Cod, Gurnet + 2 Extra Custom Fish  
6x $7.20 Fish: Snapper, Pink Salmon, Tuna, Smoked Marlin + 2 Extra Custom Fish

And they may also add chips (In my project they cost $3 per scoop)

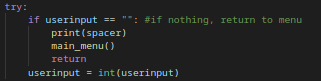
### Iteration

I have encountered multiple bugs during the coding process of this program, and have worked to fix each one. I have also changed things that I felt were not good enough for the ordering system so it worked perfectly as intended.

Cancelling Order not workingDuring my testing, I found that if you opened the add item menu, and decided you didn’t want anything more, so you didn’t input anything which returns you to the menu, and then decided to go ahead and cancel the order, it would completely ignore the exit() command and then return to the add item menu but in a loop of “Invalid Input” messages. I did a bit of testing and found that none of the exit() or quit() commands worked on it so I thought it was something wrong with another part of the code.



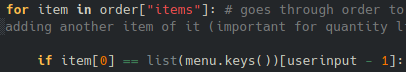
After a while of searching, I realised that the reason my code could be breaking is that it calls the return to the menu in a try/except statement, which could be why it’s returning to that part.



I changed it so it was outside of the loop, and it decided to work as intended.

#### Item limit did not apply when you added another of the same item

In my first iteration with the item limit, I had a problem that you could add another item of the same type which would ignore the limit (you could add 7, then another 7, then another 7 of the same item, ignoring the limit.) To fix this, it took me a while. I found that using a for loop to check the items in the order worked well to do this.



After the above code, I have the same get quantity code as the default

#### Frozen discount applies to non-fish items (chips)

#### Items were not nicely aligned