A bit of data processing I.E sorting happens as the data is being pulled from the csv file. This is to avoid having additional functions to handle data sorting. I.E pulling data into a temp list or dictionary and then iterating through it and sorting it that way, this would make the program less efficient.

Task one:

Task Two:

In substitution algorithm I did not allow the substitution of items from shop D(cheap Store) as potentially charging a customer more for an Item they wanted cheap is unfair particularly as we are shopping for pensioners.

Task three:

Task 3 does not use substitutions because of the lack of the “can’t keep shopping for more than one day rule” instead it uses a more intelligent delivery condition that only delivers when all items have been shopped for a given house.