

```
import pickle
import sys
from collections import defaultdict

metadata = []
def populate_productdict(brand, product_dict):
    f = open('./data/' + brand + '_products.csv', 'r')
    products = f.readlines()
    if len(metadata) == 0:
        metadata.extend(products[0].strip().split(','))
    for i in products[1:]:
        info = i.strip().split(',')
        product_info = {}
        for i in range(1, len(info)):
            product_info[metadata[i]] = info[i]
        product_dict[info[0]] = product_info
        if len(info) != len(metadata):
            print info, len(info)
            assert False
    f.close()

amazon_products = {}
populate_productdict('amazon', amazon_products)

walmart_products = {}
populate_productdict('walmart', walmart_products)

f = open('./data/predicted_matches.csv', 'r')
matches = f.readlines()[1:]
matches = [(i.split(',')[1], i.split(',')[2]) for i in matches]
f.close()

to_print = '#a_id,w_id'
for i in range(1, len(metadata)):
    meta = metadata[i]
    if meta == 'price':
        to_print += ',amazon_price,walmart_price'
    else:
        to_print += ',' + meta
print to_print

for match in matches:
    if match[0] in amazon_products and match[1] in walmart_products:
        to_print = match[0] + ',' + match[1]
        #print amazon_products[match[0]], walmart_products[match[1]]
        for i in range(1, len(metadata)):
            meta = metadata[i]
            if meta == 'price':
                to_print += ',' + amazon_products[match[0]][meta]
                to_print += ',' + walmart_products[match[1]][meta]
            else:
                if amazon_products[match[0]][meta] != '':
                    to_print += ',' + amazon_products[match[0]][meta]
                else:
                    to_print += ',' + walmart_products[match[1]][meta]
        print to_print
```