```
db class=open('C:\\Users\\HP\\OneDrive\\Desktop\\sem4\\NS\\project\\data\\carts','rb')
                                                                                                              #load
        ing carts
        carts=pickle.load(db class)
In [2]: def cc(itr):
            itr cart=carts[itr]
            edge list={}
            for i in range (500):
                edge list[i]=[]
            for i in itr cart:
                 for j in range(len(i)-1):
                     for k in (j+1, len(i)):
                         if k not in edge list[j]:
                            edge list[j].append(k)
                         if j not in edge list[k]:
                             edge_list[k].append(j)
            cc itr=cc calc(edge list)
            return cc_itr
In [5]: #CLUSTERING COEFFICIENT
        def cc_calc(edge_list):
            cc t=0
            for u in edge_list:
                cc u=0
                k=len(edge_list[u])
                cc u=0
                 if k > 1:
                    c=0
                     s=[]
                     for v in edge list[u]:
                         if u<v:</pre>
                             lst1=edge list[u]
                             lst2=edge list[v]
                             s=list(set(lst1) & set(lst2)) #finding common nodes between the neighbours
                             for w in s:
                                 if v<w:</pre>
                                     c=c+1
                                                                #calculating total number of triangles for a node
          1111
                     cc u = (2*c) / (k*(k-1))
                                                                #clustering coefficient for a node
                 cc_t=cc_t+cc_u
                                                                     #computing average
            avg_cc=cc_t/(len(edge_list))
            return avg cc
In [6]: s1=0
        for i in carts:
            cc itr=cc(i)
            s1=s1+cc itr
        s1=s1/10
        print("Average Clustering Coefficient is: ",s1)
        Average Clustering Coefficient is: 0.014500243692234535
```

In [1]: import pickle

In []: