```python
pfc={}
sfc={}
cfc={}
male=0
female=0
for l in lines:
    words=l.split(",")
    p_details.append(words[1])
    ctemp_append(words[3])
    s_details[words[0]]=words[2]
    g_details[words[3]]=words[4]
for p in p_details:
    if p not in pfc:
            pfc[p]=1
    else:
            pfc[p]=pfc[p]+1
#print(pfc)


max=0
pn=""
for k,v in pfc.items():
    if(max<v):
        max=v
        pn=k
print("most popular product is: ",pn)

for c in ctemp:
    if c not in cfc:
        cfc[c]=1
print(cfc)

max=0
cd=""
for a,b in cfc.items():
    if(max<b):
        max=b
        cd=a
print("customer who buys most of the product is: ",cd)

for k,v in g_details.items():
```

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```python
for k,v in pfc.items():
    if(max<v):
        max=v
        pn=k
print("most popular product is: ",pn)

for c in ctemp:
    if c not in cfc:
        cfc[c]=1
print(cfc)

max=0
cd=""
for a,b in cfc.items():
    if(max<b):
        max=b
        cd=a
print("customer who buys most of the product is: ",cd)

for k,v in g_details.items():
    if(v=="female"):
        female=female+1
    else:
        male=male+L
print(female)

for s in s_details.values():
    if s in freq:
        freq[s]=freq[s]+1
    else:
        freq[s]=1
max=0
rf=""
for k,v in feq.items():
    if(max<v):
        max=v
        rk=k
print("the best supplier for sales -",rf)
```