```
Product_details=[]
Supplier_details={}
Customer_details=[]
gender={}
f1=open('/content/Sales.csv','r')
while(True):
data=f1.readline()
if not data:
break;
data=data.replace("\n","")
temp=data.split(",")
print(temp)
Product_details.append(temp[1])
Customer_details.append(temp[3])
Supplier_details.update({temp[0]:temp[2]})
gender.update({temp[3]:temp[4]})
f1.close()
Customer_details=tuple(Customer_details)
print(type(Customer_details))
print("\nProduct_details\n",Product_details,end="")
print("\n\ncustomer_details\n\n",Customer_details,end="")
print("\n\nSupplier_details\n\n",Supplier_details,end="")
print("\n\ngender_details\n\n",gender,end="")
# The most popular product
def most_frequent(Product_details):
```

```
26  counter = 0
27  num = Product_details[0]
28  for i in Product_details:
29  curr_frequency = Product_details.count(i)
30  if (curr_frequency> counter):
31  counter = curr_frequency
32  num = i
33  return num
34  print(most_frequent(Product_details))
35  #The most popular supplier
36  frequency = {}
37  #iterating over the last
38  for item in Supplier_details.values():
39  # Checking the element in dictionary
40  if item in frequency:
41  #incrementing the counter
42  frequency[item] += 1
43  else:
44  # initializing the count
45  frequency[item] = 1
46  #printing the frequency
47  print(frequency)
48  marklist = sorted(frequency.items(),key=lambda x:x[1],reverse=True)
49  sortdict = dict(marklist)
50  print(sortdict)
```

```
print("the most popular Supplier for
sales",list(sortdict.keys())[0],"sold",list(sortdict.values())[0],"Item
s")
# The Customer who buys most of the products
frequency = {}
#iterating over the list
for item in Customer_details:
#checking the elements in dictionary
if item in frequency:
#incrementing the counter
frequency[item] += 1
else:
#initalizing the count
frequency[item] = 1
#printing the frequency
print("Frequency is as given below: \n ",frequency)
marklist = sorted(frequency.items(), key=lambda x:x[1],reverse=True)
sortlist = dict(marklist)
print("\nSorted Dict is as below;\n", sortdict)
print("\n\nThe customer who buys most of the products",
list(sortdict.keys())[0]," buy",list(sortdict.values())[0], "Items")
counter = dict(Counter(Customer_details))
names=list(counter.keys())
print(names)
male=0
```

```
76  female=0
77  for name in names:
78  if gender[name] == "Male":
79  male += 1
80  if gender[name] == "Female":
81  female += 1
82  print("Total no of male =",male)
83  print("Total no of Female =",female)
```