**#6. Operations with Excel file using Python**

**Roll Number:CB.EN.P2EBS22005**

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**Aim:**

To perform following operations on an excel file (“inventory.xlsx”) using Python:

1. List each company with respective product count
2. List products with inventory less than 10
3. List each company with respective total inventory value
4. Write to Spreadsheet: Calculate and write inventory value for each product into spreadsheet

**Tools Required:**

Text editor with Python interpreter.

**Experiment:**

Code:

**import** openpyxl **as** op  
  
workbook = op.load\_workbook(**"inventory.xlsx"**)  
a = {}  
sheet1 = workbook[**"Sheet1"**]  
  
Rows=sheet1.max\_row  
supplier = []  
**for** i **in** range(2,Rows+1):  
 supplier.append(sheet1.cell(row=i,column=4).value)  
supplier=[\*set(supplier)]  
productCount={}  
productList=[]  
InventoryValue={}  
**for** supp **in** supplier:  
 InventoryValue[supp] = 0  
 productCount[supp]=0  
 **for** i **in** range(2, Rows+1):  
 **if** supp == sheet1.cell(row=i,column=4).value:  
 InventoryValue[supp] = InventoryValue[supp]+sheet1.cell(row=i,column=2).value  
 productCount[supp] = productCount[supp]+1  
 **if**(sheet1.cell(row=i,column=2).value<10):  
 productList.append(sheet1.cell(row=i,column=1).value)  
  
print(**"1) List each company with respective product count "**)  
print(productCount)  
print(**"2) List products with inventory less than 10 "**)  
print(productList)  
print(**"3) List each company with respective total inventory value "**)  
print(InventoryValue)  
sheet2 = workbook.create\_sheet(index=1,title=**"sheet2"**)  
i=0  
j=0  
**for** supp **in** supplier:  
 i=i+1  
 cellValue = sheet2.cell(row=i,column=1)  
 cellValue.value = supp  
 cellValue = sheet2.cell(row=i, column=2)  
 cellValue.value = InventoryValue[supp]  
 workbook.save(**'inventoryNew.xlsx'**)

**Inference and Result:**

