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

**Roll Number: CB.EN.P2EBS22001**

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**Aim:**

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

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

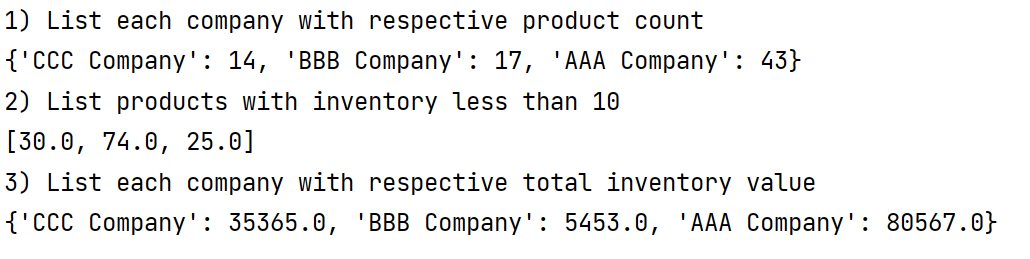
**Tools Required:**

Text editor with Python interpreter.

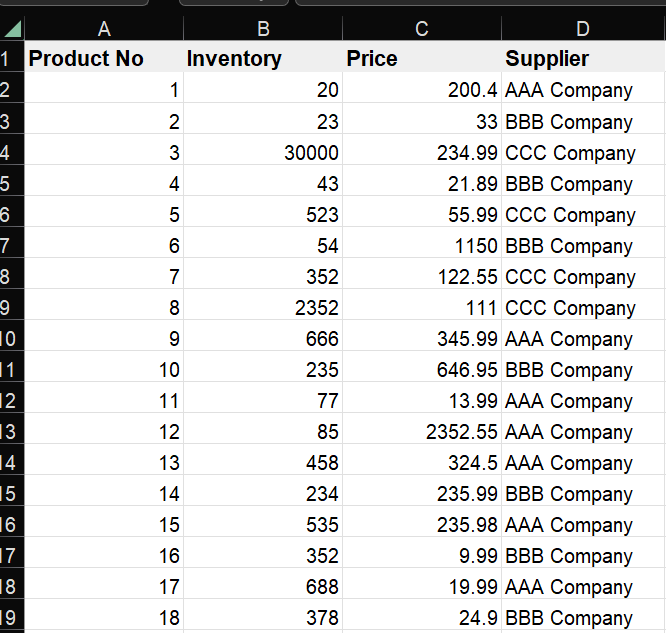
**Experiment:**

1. import openpyxl  
     
   wb = openpyxl.load\_workbook('inventory.xlsx')  
   a = {}  
   sheet1 = wb["Sheet1"]  
     
   totalRows=sheet1.max\_row  
   supplier = []  
   for i in range(2,totalRows+1):  
    supplier.append(sheet1.cell(row=i,column=4).value)  
   supplier = [\*set(supplier)]  
   InventoryValue = {}  
   productCount = {}  
   productList = []  
   for supp in supplier:  
    InventoryValue[supp] = 0  
    productCount[supp]=0  
    for i in range(2, totalRows+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 = wb.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]  
   wb.save('inventoryNew.xlsx')

Result



**New Inventory Sample**

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**Inference and Result:**

Excel sheet import and data functionalities are explored using openpyxl library in python and output is observed.