#6. Operations with Excel file using Python

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Aim:

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

i. List each company with respective product count
ii. List products with inventory less than 10
iii. List each company with respective total inventory value
iv. Write to Spreadsheet: Calculate and write inventory value for each product into spreadsheet

Tools Required:

Text editor with Python interpreter.

Experiment:

i)

Code

```
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("i.  List each company with respective product count ")
print(productCount)
print("ii. List products with inventory less than 10 ")
print(productList)
print("iii.     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

```
i.  List each company with respective product count
{'CCC Company': 14, 'BBB Company': 17, 'AAA Company': 43}
ii. List products with inventory less than 10
[30.0, 74.0, 25.0]
iii.    List each company with respective total inventory value
{'CCC Company': 35365.0, 'BBB Company': 5453.0, 'AAA Company': 80567.0}
```

Inference and Result:

Thus the following operations on an excel file (“inventory.xlsx”) are performed using Python