Looking at our backpacking equipment DataFrame, suppose we are interested in finding our total weight for each category. Use groupby to group the dataframe, and apply a function to calculate the total weight (Weight x Quantity) by category.

```
1  print(df.groupby('Category').apply(lambda df,a,b:sum(df[a]*df[b]), 'Weight (oz.)'
      , 'Quantity'))
2
```

Run

Reset

```
Category
Clothing    20.5
Health      10.7
Kitchen     92.5
Pack        33.0
Shelter     80.0
Sleep       47.0
Utility     18.0
dtype: float64
```