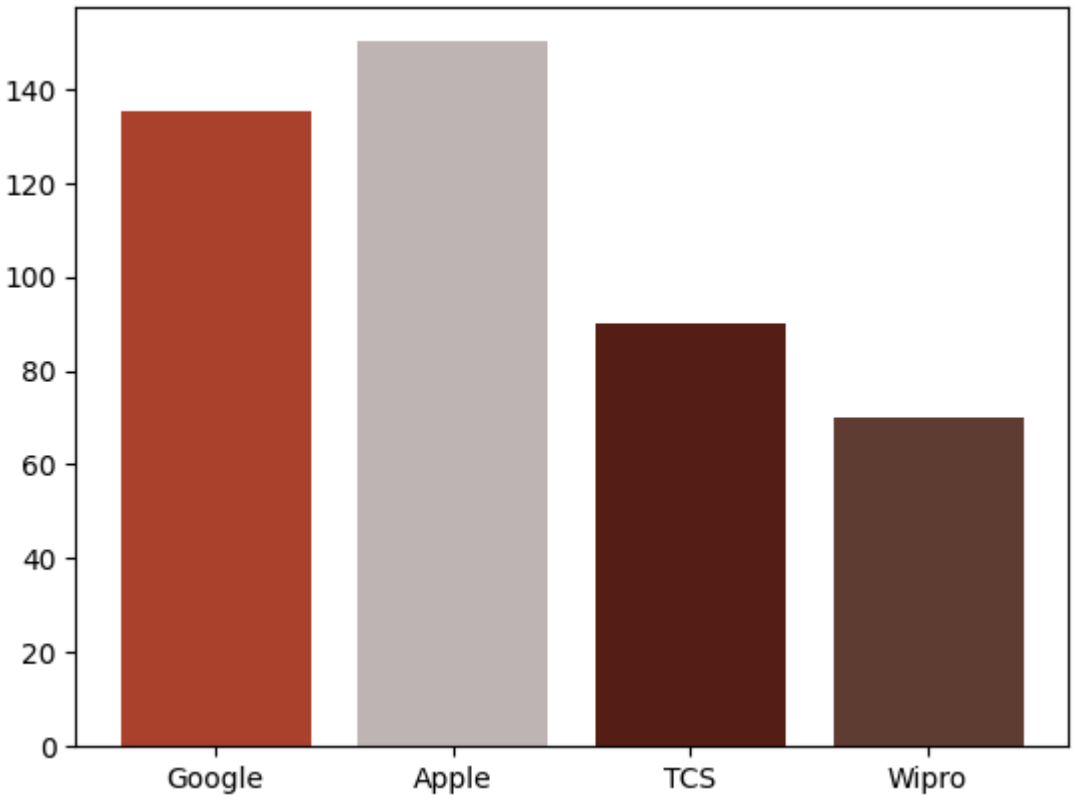
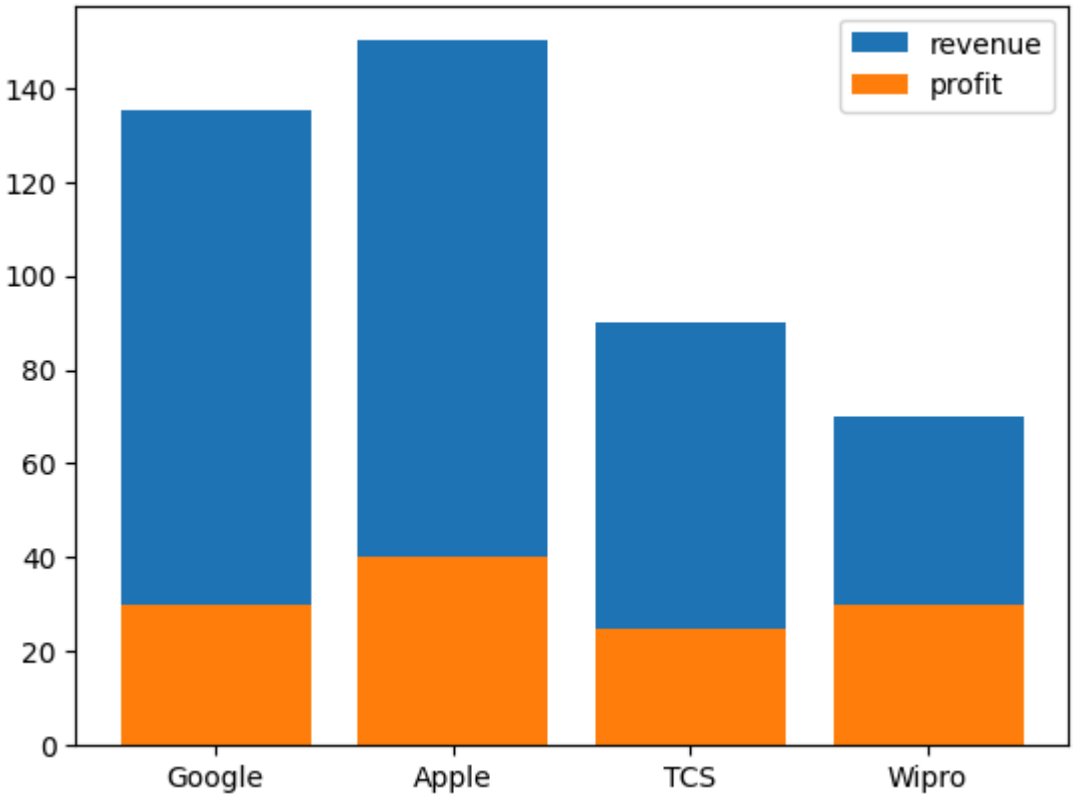
In [1]:
```
# Bar Chart

import matplotlib.pyplot as plt
import numpy as np
```

In [38]:
```
company = ["Google","Apple","TCS","Wipro"]
revenue = [135,150,90,70]

plt.bar(company,revenue,color= ["#AB4430","#C2B8B6","#572015","#633C35"])
plt.show()
```



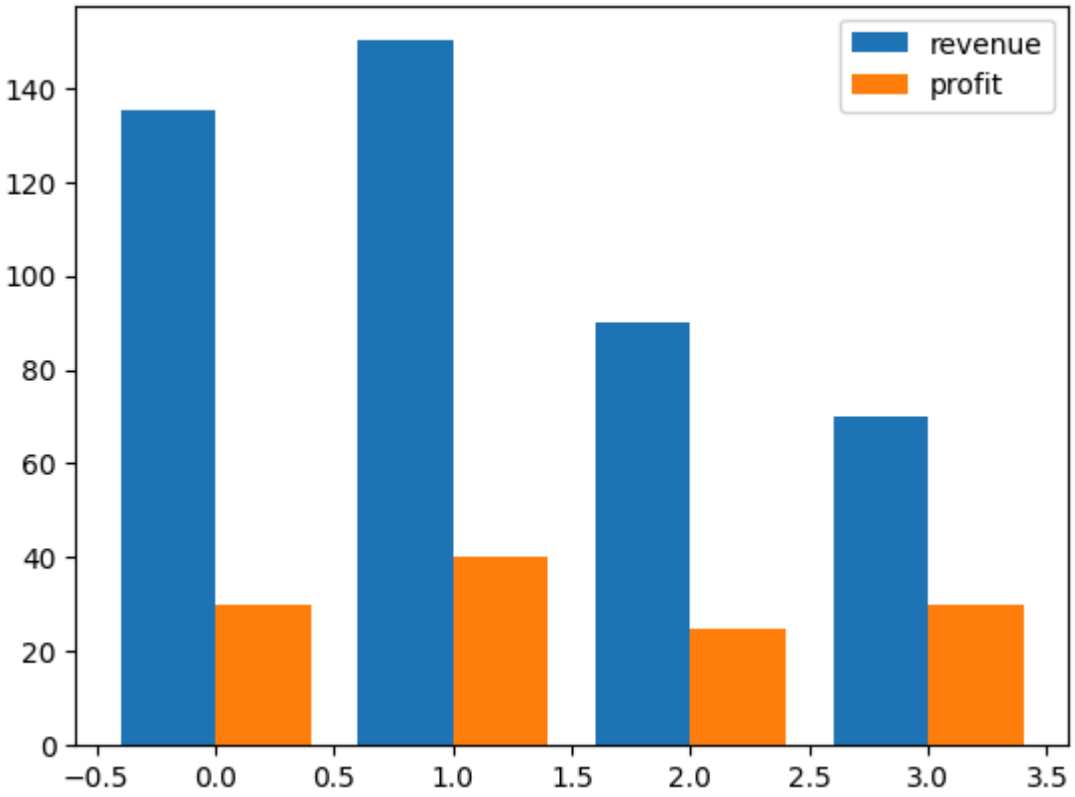
In [3]:
```
company = ["Google","Apple","TCS","Wipro"]
revenue = [135,150,90,70]
profit = [30,40,25,30]

plt.bar(company,revenue, label= "revenue")
plt.bar(company,profit, label= "profit")
plt.legend()
plt.show()
```



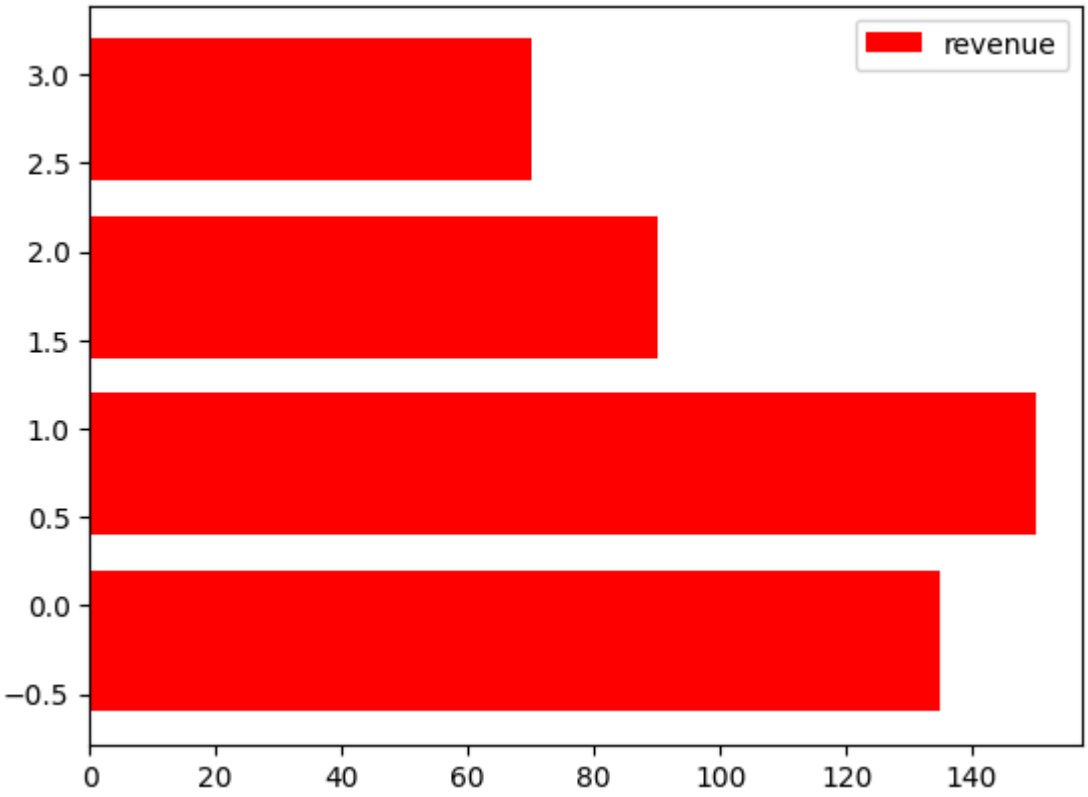
In [8]:
```
np.arange(len(company))
```

Out[8]:
```
array([0, 1, 2, 3])
```

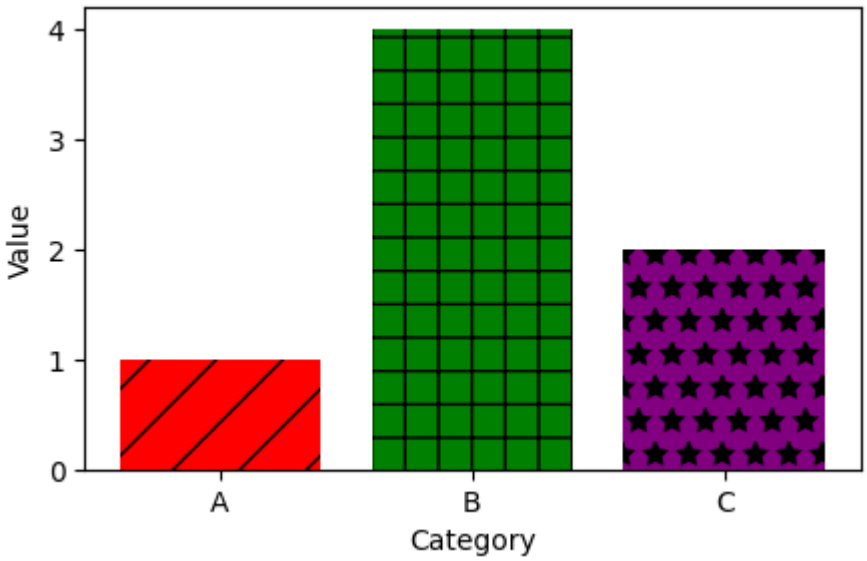
In [9]:
```
company = ["Google","Apple","TCS","Wipro"]
revenue = [135,150,90,70]
profit = [30,40,25,30]

comp_num = np.arange(len(company))
plt.bar(comp_num -0.2,revenue, label= "revenue",width=0.4)
plt.bar(comp_num + 0.2,profit, label= "profit",width=0.4)
plt.legend()
plt.show()
```



In [14]:
```
# HBAR

company = ["Google","Apple","TCS","Wipro"]
revenue = [135,150,90,70]
profit = [30,40,25,30]

comp_num = np.arange(len(company))
plt.barh(comp_num -0.2,revenue, label= "revenue",color="red")
plt.legend()
plt.show()
```

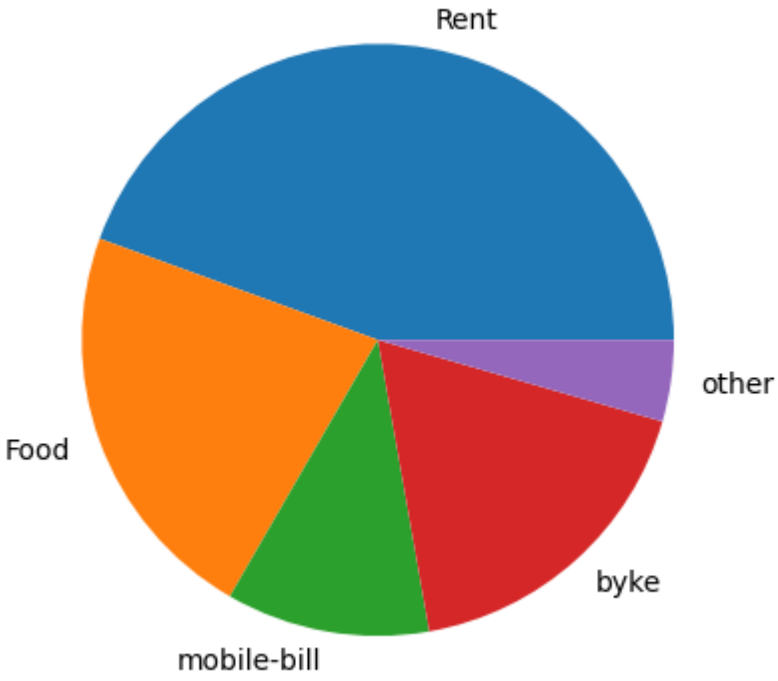


In [26]:
```
labels = ["A","B","C"]
values = [1,4,2]
colors = ["red","green","purple"]

plt.figure(figsize=(5,3),dpi=100)
bars = plt.bar(labels,values,color= colors)
plt.xlabel("Category")
plt.ylabel("Value")
patteren = ["/","+","*"]
for bar in bars:
    bar.set_hatch(patteren.pop(0))
plt.show()
```

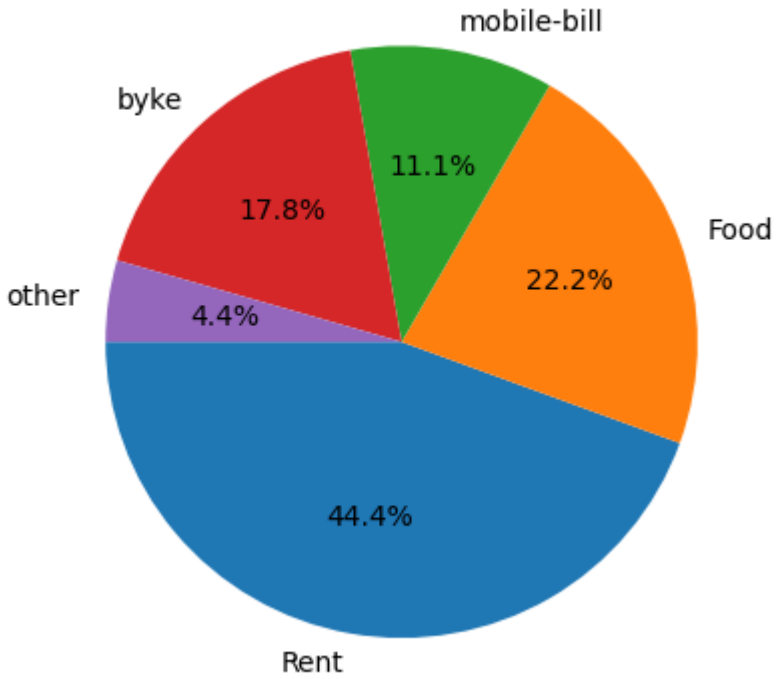


Pie Chart

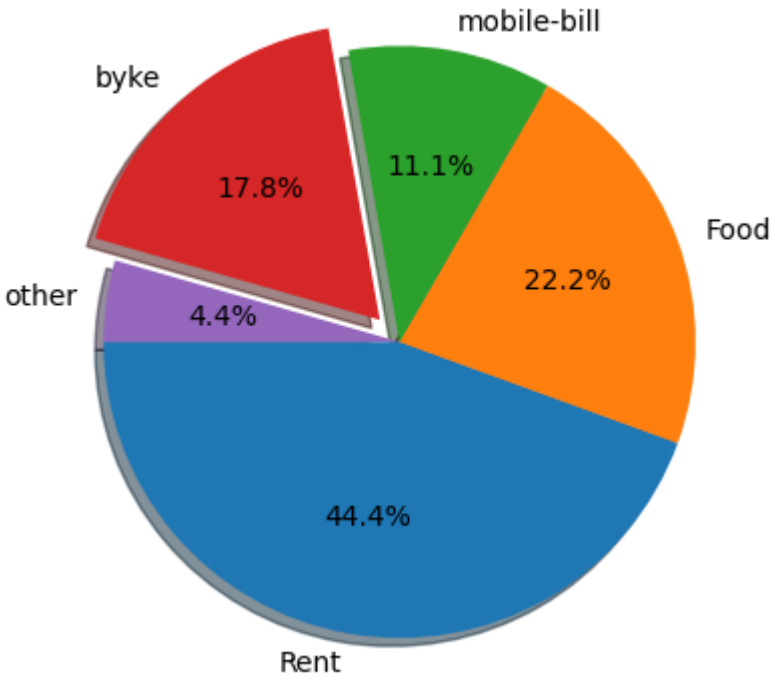
In [39]:
```
comp_exp = [2000,1000,500,800,200]
comp_labels = ["Rent","Food","mobile-bill","byke","other"]

plt.pie(comp_exp,labels=comp_labels)
plt.show()
```



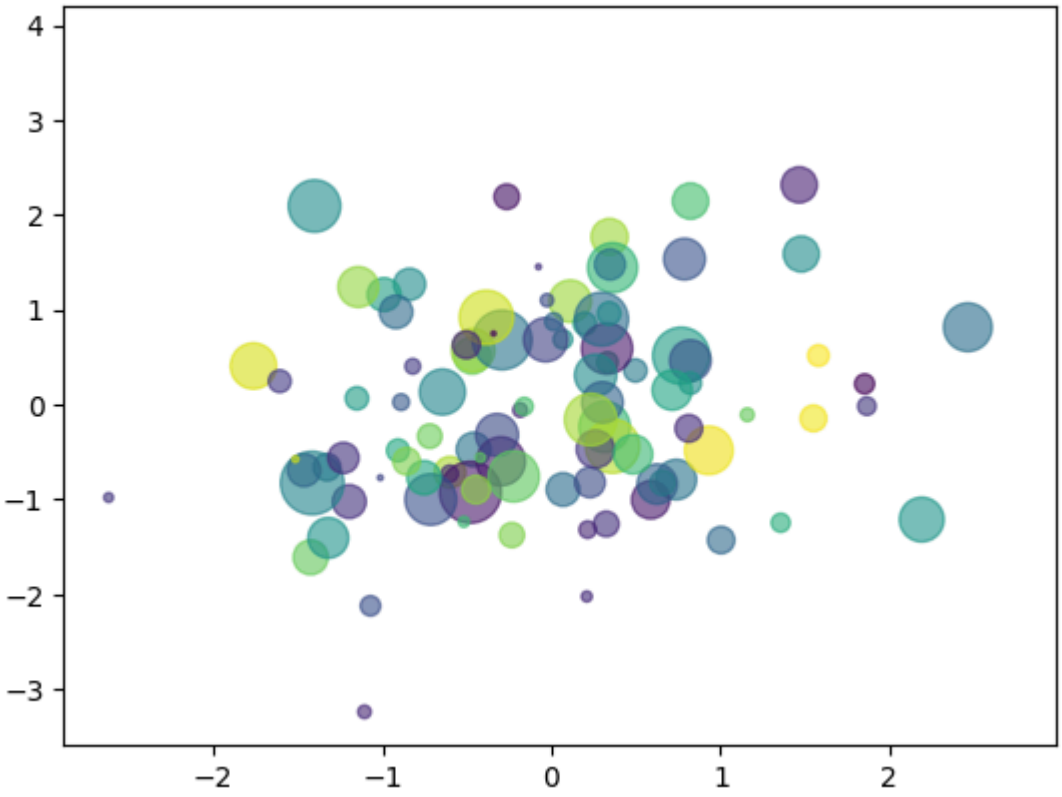
In [46]:
```
comp_exp = [2000,1000,500,800,200]
comp_labels = ["Rent","Food","mobile-bill","byke","other"]

plt.pie(comp_exp,labels=comp_labels,autopct="%2.1f%%",startangle=180)
plt.show()
```



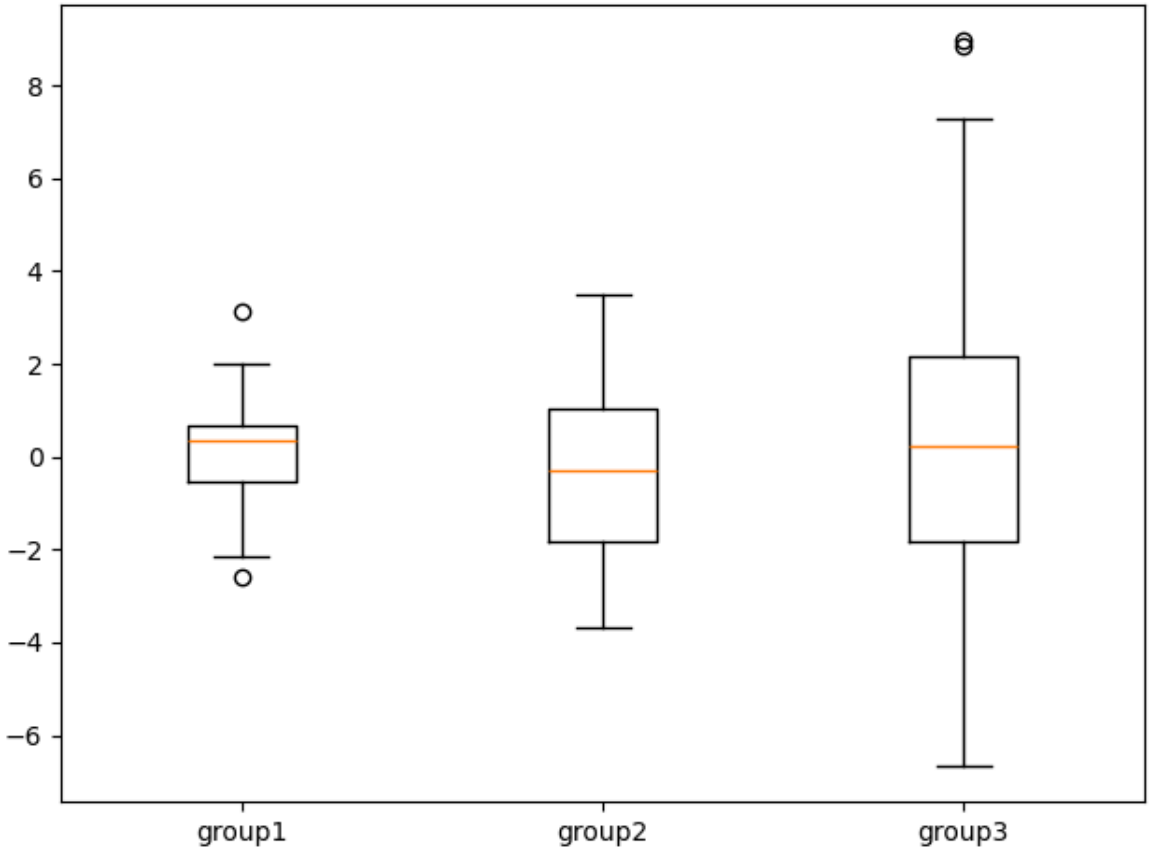
In [50]:
```
comp_exp = [2000,1000,500,800,200]
comp_labels = ["Rent","Food","mobile-bill","byke","other"]

plt.pie(comp_exp,labels=comp_labels,autopct="%2.1f%%",startangle=180,explode=[0,
plt.show()
```



In [58]:
```
# scatter chart
np.random.seed(42)
n=200
x = np.random.randn(n)
y = np.random.randn(n)
colors = np.random.rand(n)
sizes = 200 * np.random.randn(n)

plt.scatter(x,y,c= colors,s= sizes,alpha=0.6,cmap="viridis")
plt.show()
```



In [65]:
```
# Box Plot

import warnings
warnings.filterwarnings("ignore")

data = [np.random.normal(0,std,100) for std in range(1,4)]
plt.boxplot(data,labels = ["group1","group2","group3"])
plt.tight_layout()
plt.show()
```



In [ ]: