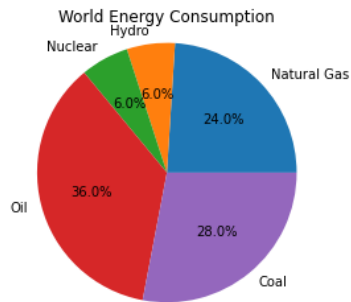


```
import matplotlib.pyplot as plt

data = [24, 6, 6, 36, 28]
label = ['Natural Gas', 'Hydro', 'Nuclear', 'Oil', 'Coal']

plt.pie(data, labels=label, autopct='%1.1f%%', explode=[0,0,0,0.1,0], shadow=True, startangle=90)
plt.title('World Energy Consumption')
plt.axis('equal')
plt.show()
```

Output



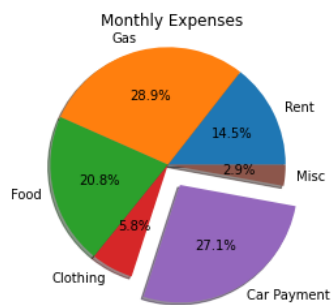
```
import matplotlib.pyplot as plt

expenses = [500, 1000, 721, 200, 938, 100]
labels = ['Rent', 'Gas', 'Food', 'Clothing', 'Car Payment', 'Misc']

def func(pct):
    return "{:1.1f}%".format(pct)

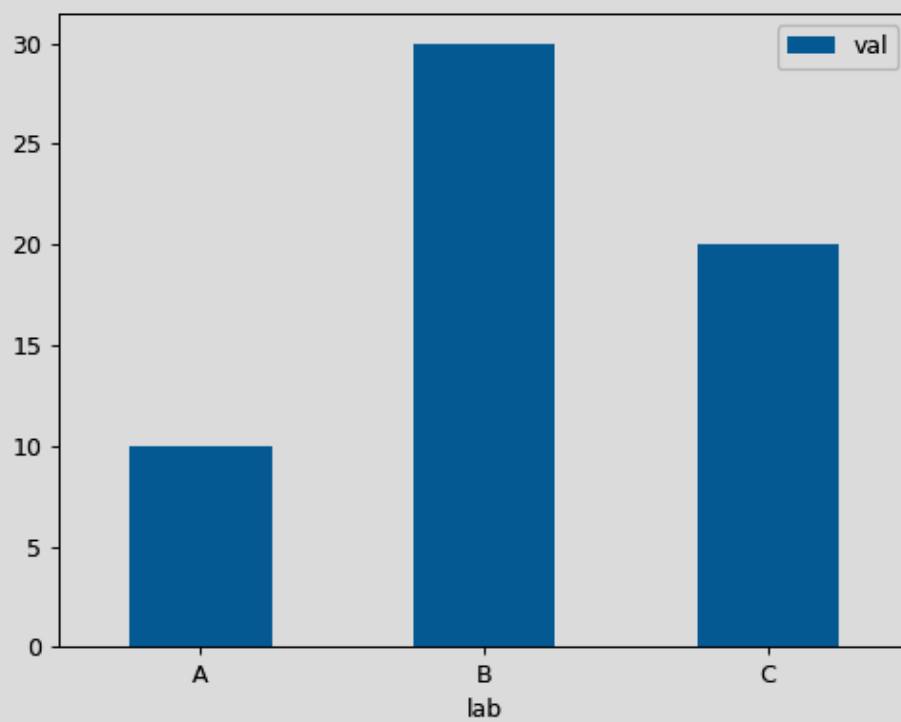
plt.pie(expenses, labels=labels, autopct=lambda pct: func(pct), explode=[0,0,0,0,0.2,0], shadow=True)
plt.title('Monthly Expenses')
plt.axis('equal')
plt.show()
```

Output

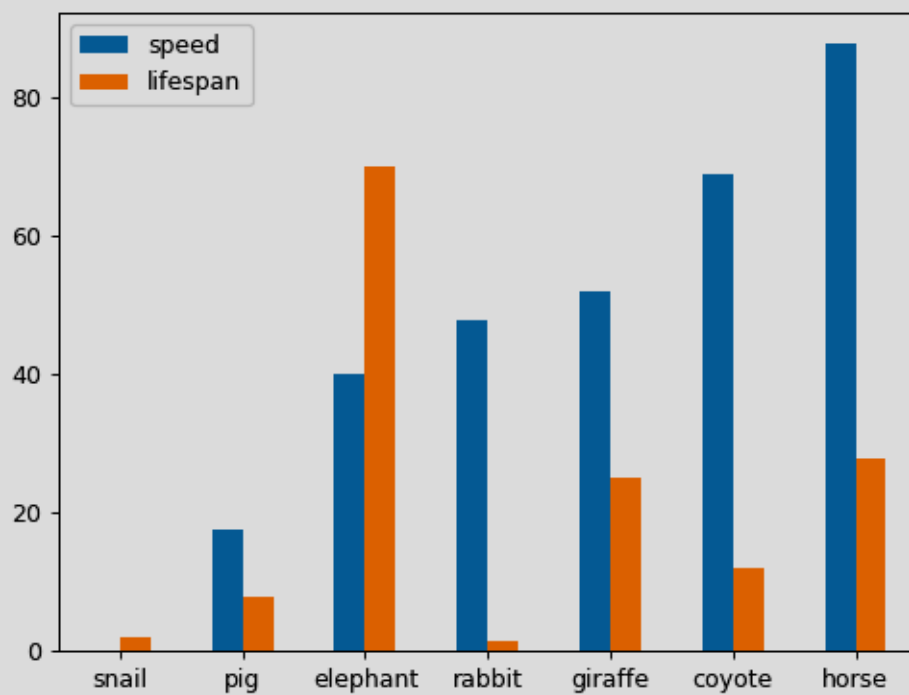


```
>>> df = pd.DataFrame({'lab':['A', 'B', 'C'], 'val':[10, 30, 20]})  
>>> ax = df.plot.bar(x='lab', y='val', rot=0)
```

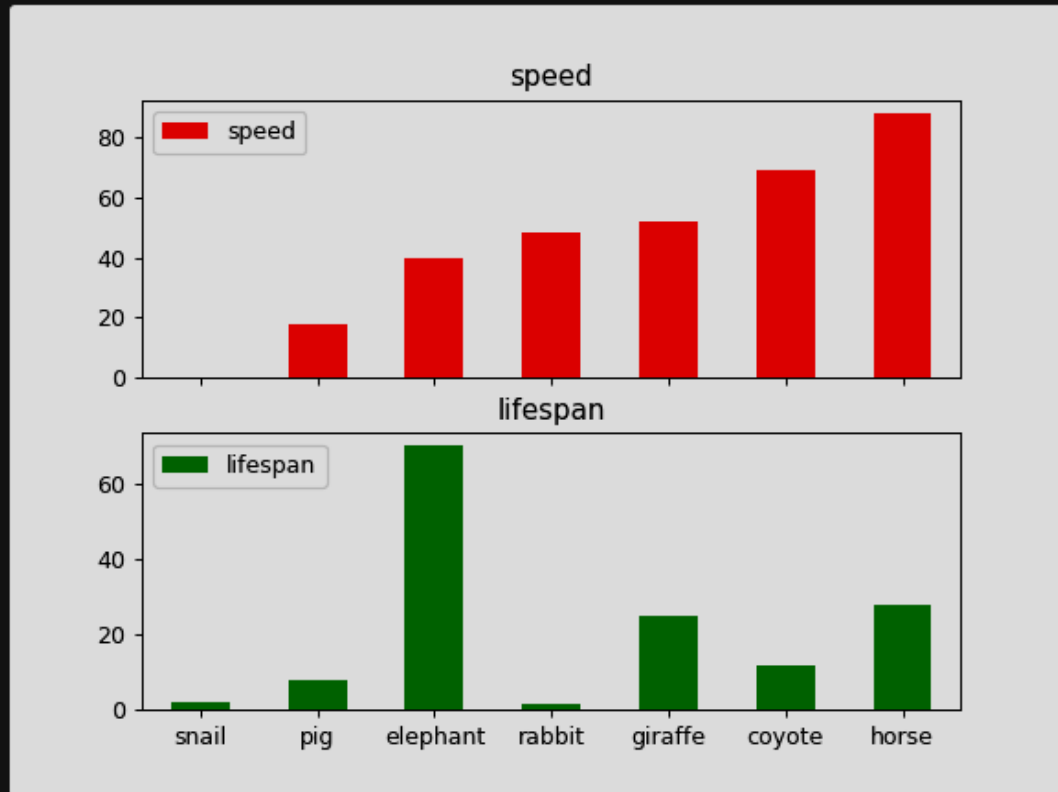
```
>>>
```



```
>>> speed = [0.1, 17.5, 40, 48, 52, 69, 88]
>>> lifespan = [2, 8, 70, 1.5, 25, 12, 28]
>>> index = ['snail', 'pig', 'elephant',
...          'rabbit', 'giraffe', 'coyote', 'horse']
>>> df = pd.DataFrame({'speed': speed,
...                    'lifespan': lifespan}, index=index)
>>> ax = df.plot.bar(rot=0)
```



```
>>> axes = df.plot.bar(  
...     rot=0, subplots=True, color={"speed": "red", "lifespan": "green"}  
... )  
>>> axes[1].legend(loc=2)
```



SEABORN

```
# loading dataset
data = sns.load_dataset("iris")

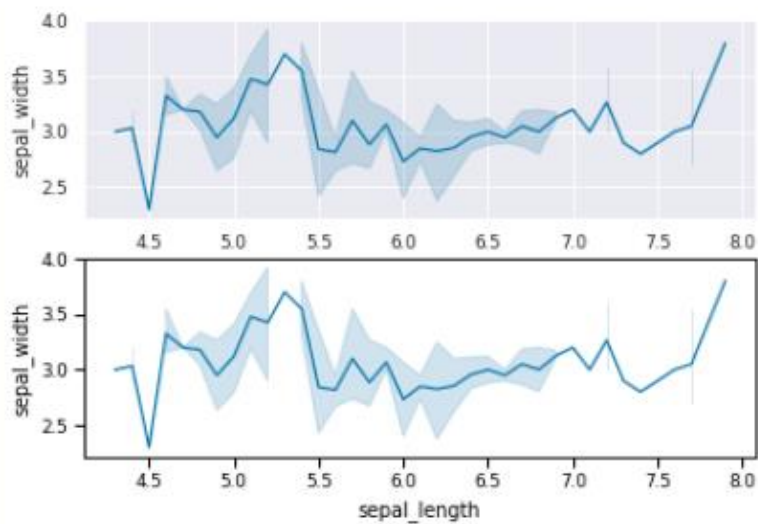
def plot():
    sns.lineplot(x="sepal_length", y="sepal_width", data=data)

with sns.axes_style('darkgrid'):

    # Adding the subplot
    plt.subplot(211)
    plot()

    plt.subplot(212)
    plot()
```

## Output:



```
import seaborn as sns
x = np.linspace(0, 10, 30)
y = np.sin(x)
sns.scatterplot(x, y, marker='s', color='blue')
```

