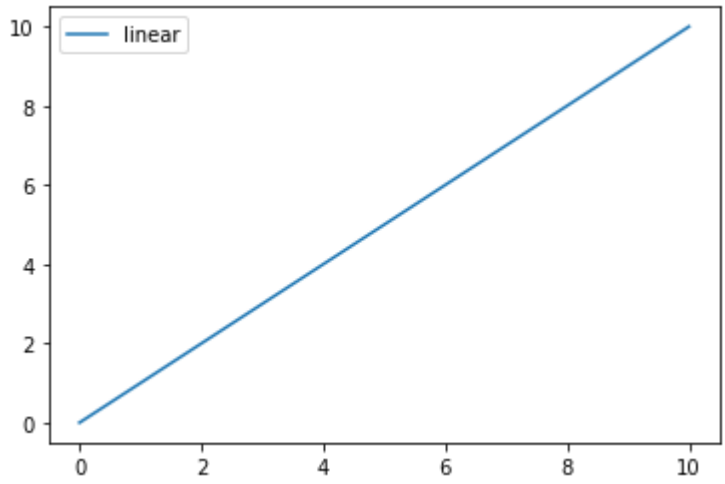
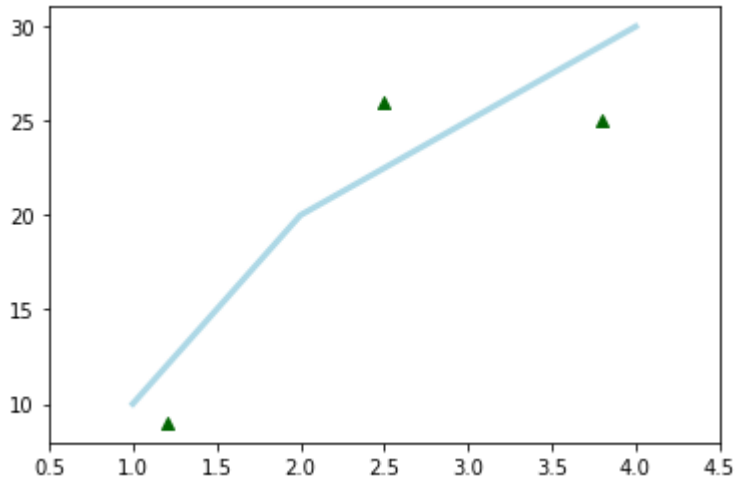
In [2]:

```
# Prepare the data
x = np.linspace(0, 10, 100)

# Plot the data
plt.plot(x, x, label='linear')

# Add a legend
plt.legend()

# Show the plot
plt.show()
```



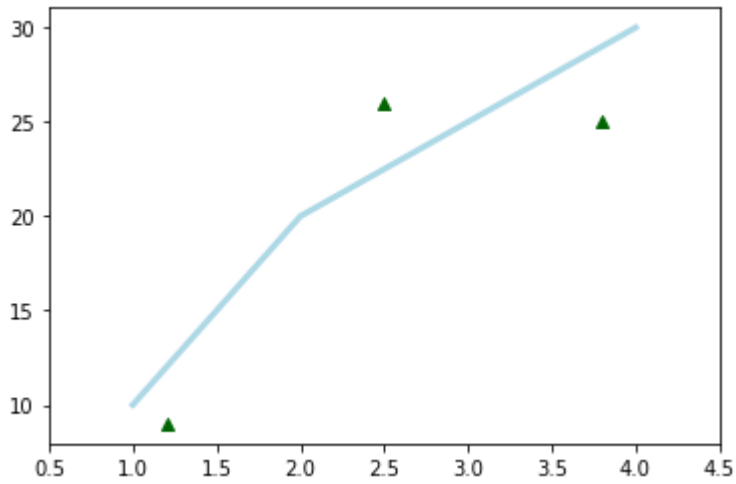
In [3]:

```
fig = plt.figure()
ax = fig.add_subplot(111)
ax.plot([1, 2, 3, 4], [10, 20, 25, 30], color='lightblue', linewidth=3)
ax.scatter([0.3, 3.8, 1.2, 2.5], [11, 25, 9, 26], color='darkgreen', marker='
ax.set_xlim(0.5, 4.5)
plt.show()
```



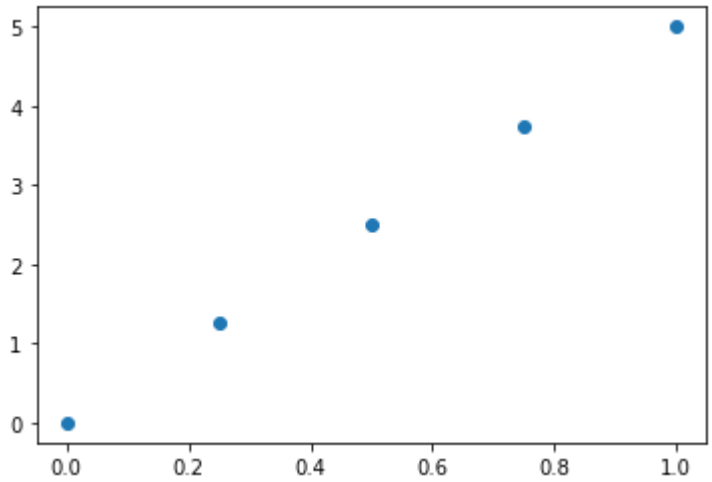
In [4]:

```
plt.plot([1, 2, 3, 4], [10, 20, 25, 30], color='lightblue', linewidth=3)
plt.scatter([0.3, 3.8, 1.2, 2.5], [11, 25, 9, 26], color='darkgreen', marker=
plt.xlim(0.5, 4.5)
plt.show()
```



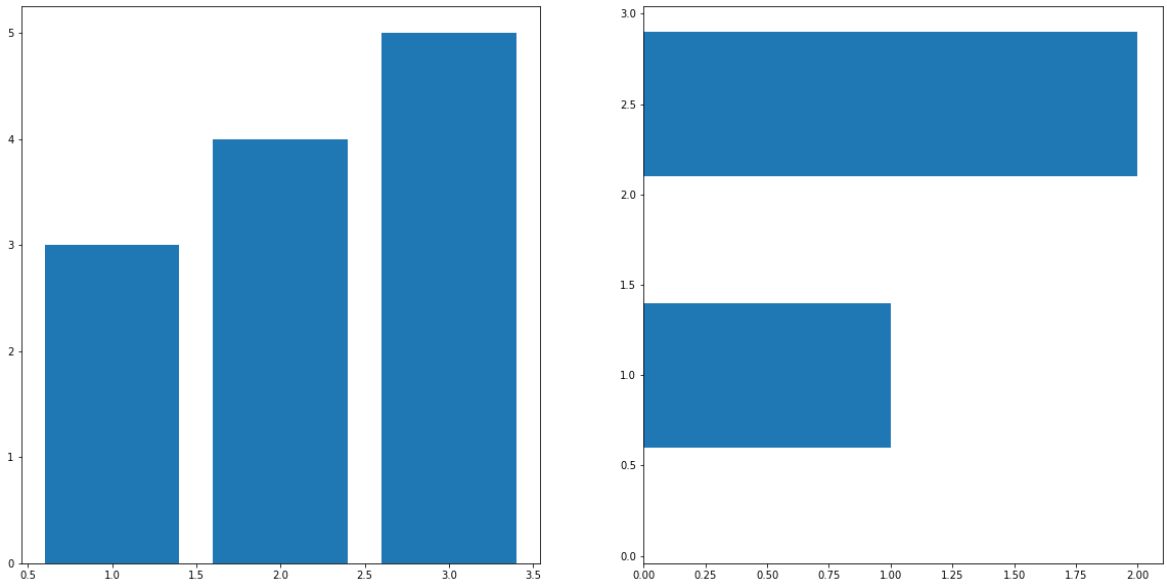
In [6]:

```
# Create a Figure
fig = plt.figure()

# Set up Axes
ax = fig.add_subplot(111)

# Scatter the data
ax.scatter(np.linspace(0, 1, 5), np.linspace(0, 5, 5))

# Show the plot
plt.show()
```



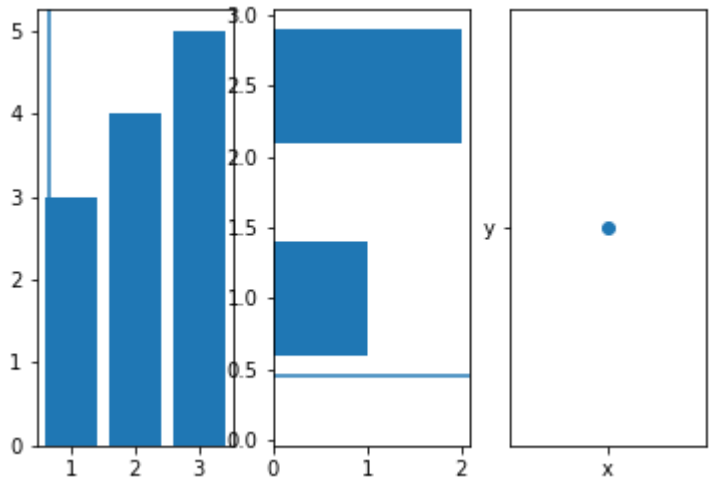
In [7]:

```
# Initialize the plot
fig = plt.figure(figsize=(20,10))
ax1 = fig.add_subplot(121)
ax2 = fig.add_subplot(122)

# or replace the three lines of code above by the following line:
#fig, (ax1, ax2) = plt.subplots(1,2, figsize=(20,10))

# Plot the data
ax1.bar([1,2,3],[3,4,5])
ax2.barh([0.5,1,2.5],[0,1,2])

# Show the plot
plt.show()
```



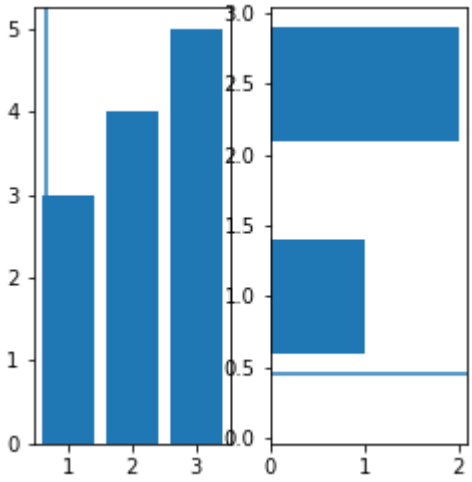
In [11]:

```
# Initialize the plot
fig = plt.figure()
ax1 = fig.add_subplot(131)
ax2 = fig.add_subplot(132)
ax3 = fig.add_subplot(133)

# Plot the data
ax1.bar([1,2,3],[3,4,5])
ax2.barh([0.5,1,2.5],[0,1,2])
ax2.axhline(0.45)
ax1.axvline(0.65)
ax3.scatter('x','y')

# Show the plot
plt.show()
```



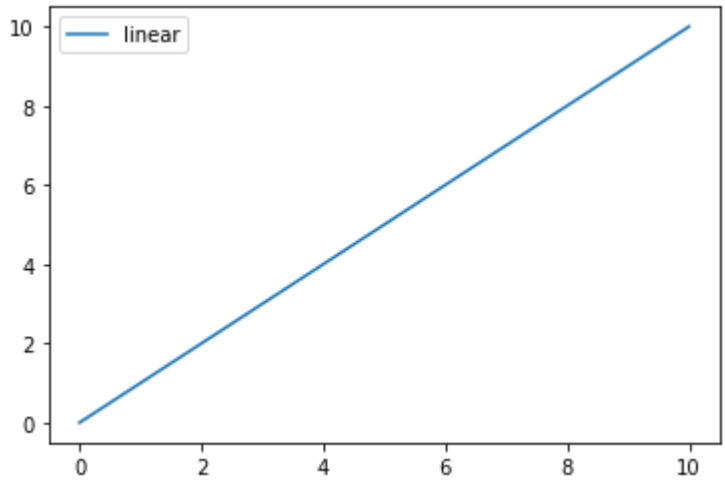
In [12]:

```
fig = plt.figure()
ax1 = fig.add_subplot(131)
ax2 = fig.add_subplot(132)
ax3 = fig.add_subplot(133)

# Plot the data
ax1.bar([1,2,3],[3,4,5])
ax2.barh([0.5,1,2.5],[0,1,2])
ax2.axhline(0.45)
ax1.axvline(0.65)
ax3.scatter(np.linspace(0, 1, 5), np.linspace(0, 5, 5))

# Delete `ax3`
fig.delaxes(ax3)

# Show the plot
plt.show()
```



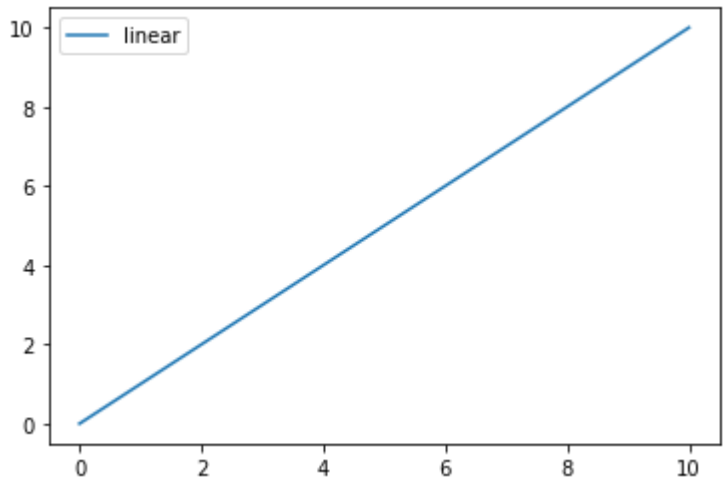
In [13]:

```
# Prepare the data
x = np.linspace(0, 10, 100)

# Plot the data
plt.plot(x, x, label='linear')

# Add a legend
plt.legend()

# Show the plot
plt.show()
```



In [14]:

```
# Uncomment following line to see the effect
#mpl.rcParams['lines.linewidth'] = 5

# Prepare the data
x = np.linspace(0, 10, 100)

# Plot the data
plt.plot(x, x, label='linear')

# Add a legend
plt.legend()

# Show the plot
plt.show()
```



In [ ]: