```
Chapter 4 - Practical Data Visualization
Segment 3 - Plot Formating
```

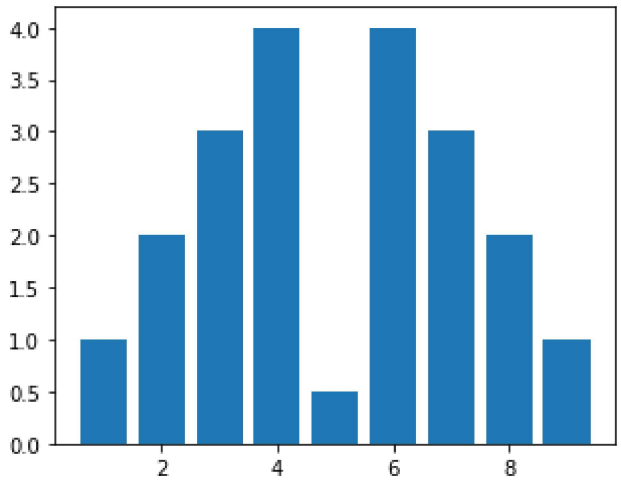
In [2]:
```
import numpy as np
import pandas as pd
from pandas import Series, DataFrame

import matplotlib.pyplot as plt
from pylab import rcParams
```

In [4]:
```
%matplotlib inline
rcParams['figure.figsize'] = 5, 4
```

```
Defining plot color
```

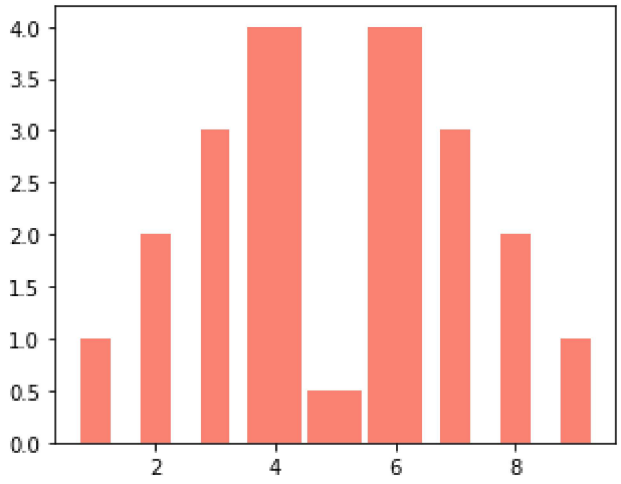
In [5]:
```
x = range(1,10)
y = [1,2,3,4,0.5,4,3,2,1]

plt.bar(x,y)
```

Out[5]: <BarContainer object of 9 artists>



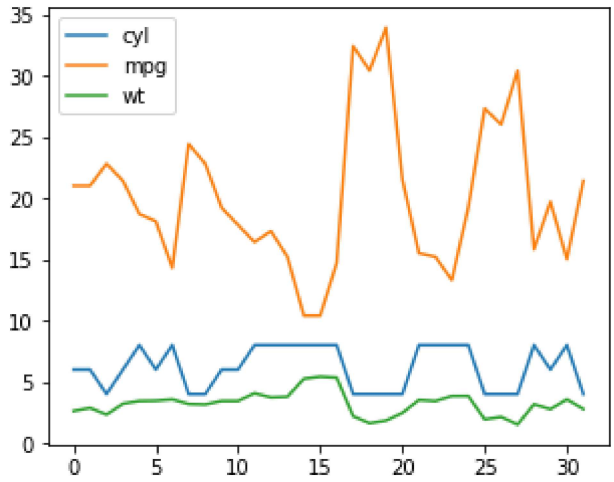
In [6]:
```
wide = [.5,.5,.5,.9,.9,.9,.5,.5,.5]
color = ['salmon']
plt.bar(x, y, width=wide, color=color, align = 'center')
```

Out[6]:
```
<BarContainer object of 9 artists>
```



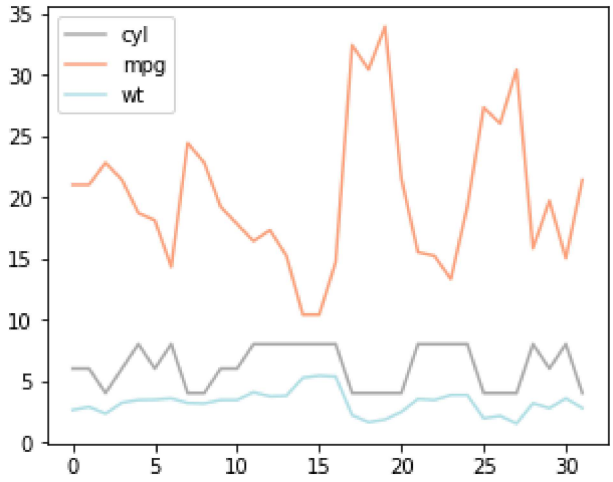
In [7]:
```
address = 'C:/Users/danal/Desktop/ExerciseFiles/Data/mtcars.csv'

cars = pd.read_csv(address)
cars.columns = ['car_names', 'mpg', 'cyl', 'disp', 'hp', 'drat', 'wt', 'qsec', 'v

df = cars[['cyl', 'mpg', 'wt']]
df.plot()
```

Out[7]:
```
<matplotlib.axes._subplots.AxesSubplot at 0x20aebc76948>
```

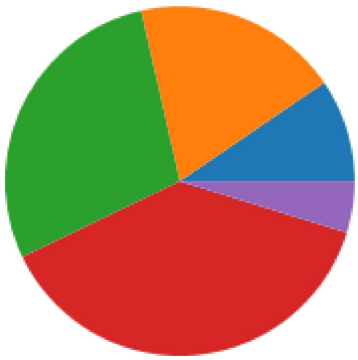


In [8]:
```
color_theme = ['darkgray', 'lightsalmon', 'powderblue']
df.plot(color=(color_theme))
```

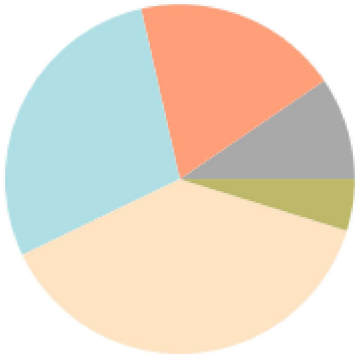
Out[8]: <matplotlib.axes._subplots.AxesSubplot at 0x20aebd06248>



In [9]:
```
z = [1, 2, 3, 4, .5]
plt.pie(z)
plt.show()
```



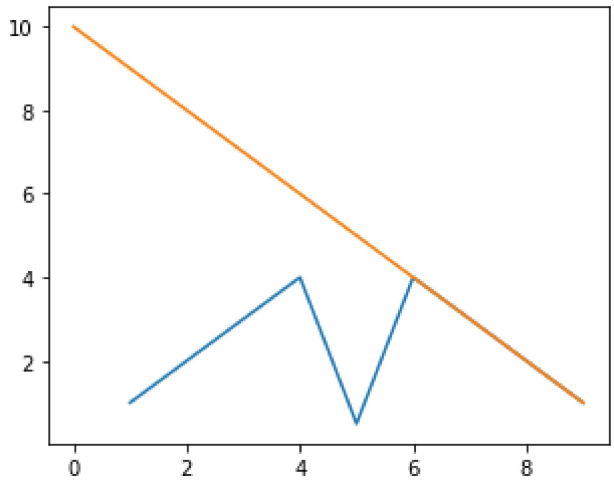
In [10]:
```
color_theme = ['#A9A9A9', '#FFA07A', '#B0E0E6', '#FFE4C4', '#BDB768']
plt.pie(z, colors=color_theme)
plt.show()
```



Customizing line styles

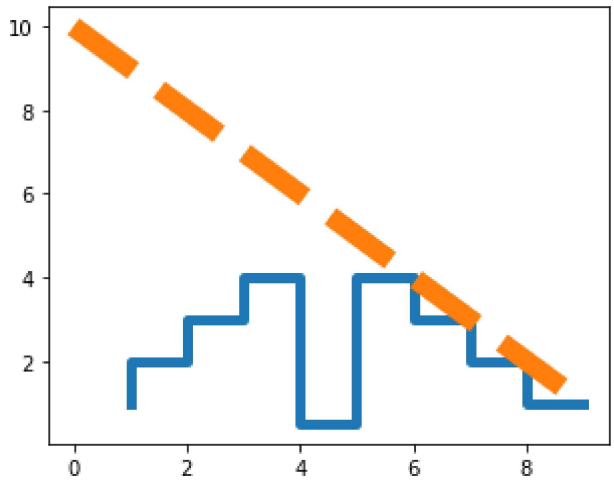
In [11]:
```
x1 = range(0,10)
y1 = [10,9,8,7,6,5,4,3,2,1]

plt.plot(x,y)
plt.plot(x1,y1)
```

Out[11]: [<matplotlib.lines.Line2D at 0x20aebe442c8>]



In [12]:
```
plt.plot(x, y, ds='steps',lw=5)
plt.plot(x1,y1, ls='--', lw=10)
```

Out[12]:
```
[<matplotlib.lines.Line2D at 0x20aebe99208>]
```



Setting plot markers

In [14]:
```
plt.plot(x, y, marker='1', mew=20)
plt.plot(x1, y1, marker='+', mew=15)
```

Out[14]:
```
[<matplotlib.lines.Line2D at 0x20aec0f6508>]
```