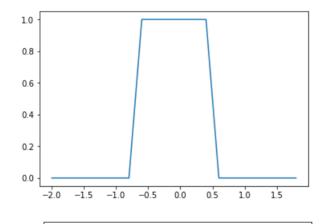
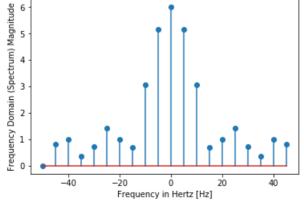
```
In [ ]:
```

```
In [9]: from scipy import fftpack
from scipy import signal
import numpy as np
import matplotlib.pyplot as plt
f=2 #if the frequency is 2, then the signal repeats every 1/2 seconds = 0.5 seconds (PERIOD
f_s=10 #number of samples
t=np.linspace(-2,2,2*f_s, endpoint=False)
plt.plot(t,x) #SIGNAL GRAPH
X=fftpack.fft(x)
freqs=fftpack.fftfreq(len(x))*100
fig, ax=plt.subplots()
#ax.stem(freqs,np.abs(X))
ax.stem(freqs,np.abs(X))
ax.set_xlabel("Frequency in Hertz [Hz]")
ax.set ylabel("Frequency Domain (Spectrum) Magnitude")
```

Out[9]: Text(0, 0.5, 'Frequency Domain (Spectrum) Magnitude')





In []: