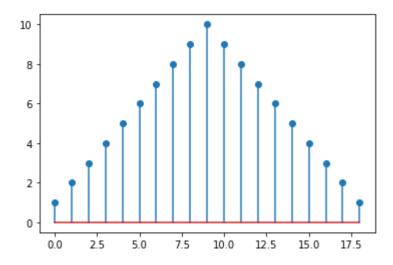
/usr/local/lib/python3.7/dist-packages/ipykernel_launcher.py:8: UserWarning: In Matpl



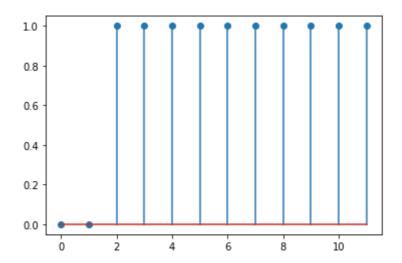
```
#-----App2/a convolution rect10(k)*d(k)------
x=np.ones(10);
h=np.ones(1);
y=np.convolve(x,h);
N=len(x)+len(h)-1
k=np.arange(0,N);
plt.figure()
plt.stem(k,y);
```

/usr/local/lib/python3.7/dist-packages/ipykernel_launcher.py:8: UserWarning: In Ma



```
#------App2/b convolution rect10(k)*d(k-2)------
x=np.ones(10);
h=np.array([0,0,1]);
y=np.convolve(x,h);
N=len(x)+len(h)-1
k=np.arange(0,N);
plt.figure()
plt.stem(k,y);
```

/usr/local/lib/python3.7/dist-packages/ipykernel_launcher.py:8: UserWarning: In Ma



```
#------App3 auto-correlation rect10(k)*rect10(k) ------
x=np.ones(10);
cx=np.correlate(x, x, mode='full');
k=np.arange(-9,10);
plt.figure()
plt.stem(k,cx);
e0=np.sum(x**2)
e1=cx[9]
X=np.fft.fftshift(np.abs(np.fft.fft(x)));
Sx=X**2
N=len(x);
e3=np.sum(X**2)/N
```

/usr/local/lib/python3.7/dist-packages/ipykernel_launcher.py:6: UserWarning: In Ma

