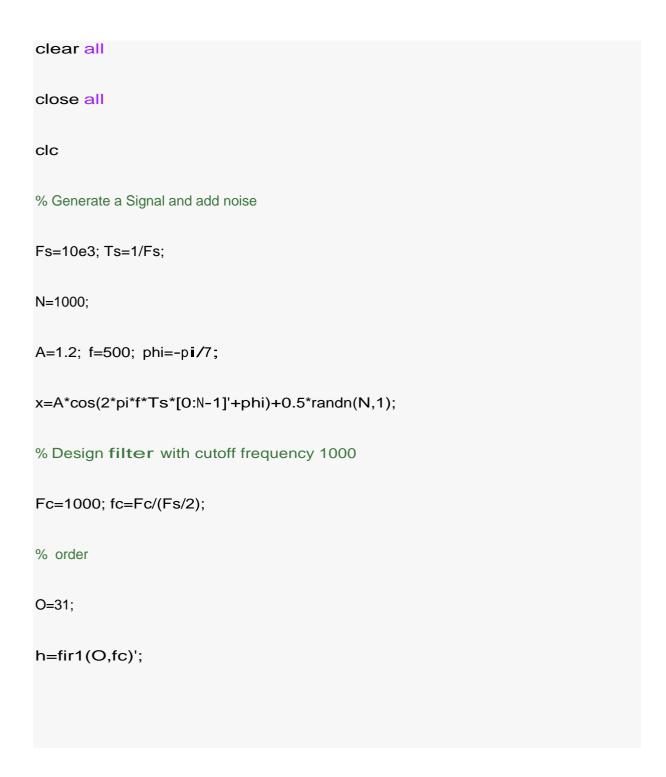
## Embedded System Assignment-7

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Code->



```
w=32; f=33; % you have to determine fraction
hf=sfi(h,w,f); %signed representation
xf=sfi(x,w,f);
yf=conv(xf,hf);
y=conv(x,h);
% errors
eh=100*(h-double(hf))./max(h);
ex=100*(x-double(xf))./max(x);
ey=100*(y-double(yf))./max(y);
subplot(311)
bar([h double(hf)])
title('error in h')
```

```
subplot(312)

plot([x double(xf)])

title('error in x')

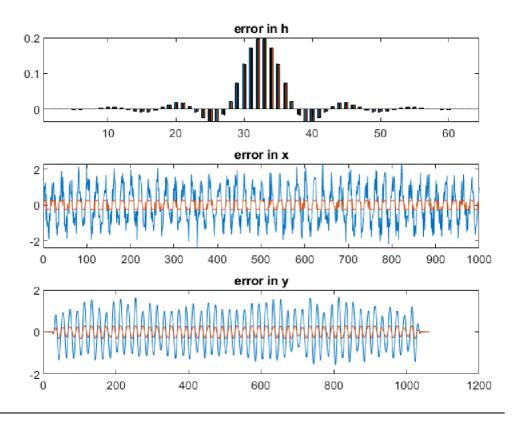
subplot(313)

plot([y double(yf)])

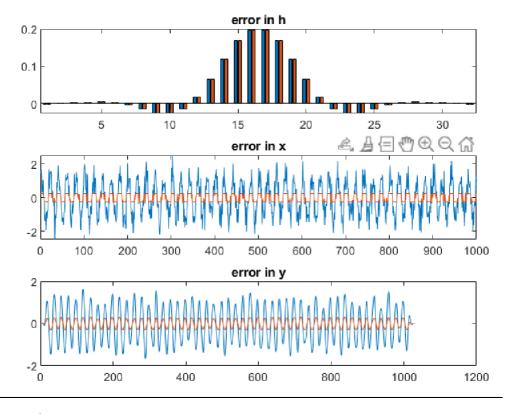
title('error in y')

shg
```

## w=8,b=9



## W=16,b=17



## W=32,b=33

