

Lab Report-5

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5.

```
close all;
clc;
f=5;
f2=10;
x=[1 1 0 0 1 0 1 0] % input signal ;
nx=size(x,2);
i=1;
while i<nx+1
    t = i:0.001:i+1;
    if x(i)==1
        ask=sin(2*pi*f*t);
        fsk=sin(2*pi*f*t);
        psk=sin(2*pi*f*t);
    else
        ask=0;
        fsk=sin(2*pi*f2*t);
        psk=sin(2*pi*f*t+pi);
    end
    subplot(3,1,1);
    plot(t,ask);
    hold on;
    grid on;
    axis([1 10 -1 1]);
    title('Amplitude Shift Key')
    subplot(3,1,2);
    plot(t,fsk);
    hold on;
    grid on;
    axis([1 10 -1 1]);
    title('Frequency Shift Key')
    subplot(3,1,3);
    plot(t,psk);
    hold on;
    grid on;
    axis([1 10 -1 1]);
    title('Phase Shift Key')
    i=i+1;
end
```

Command Window

x =

1 1 0 0 1 0 1 0

fx >>

