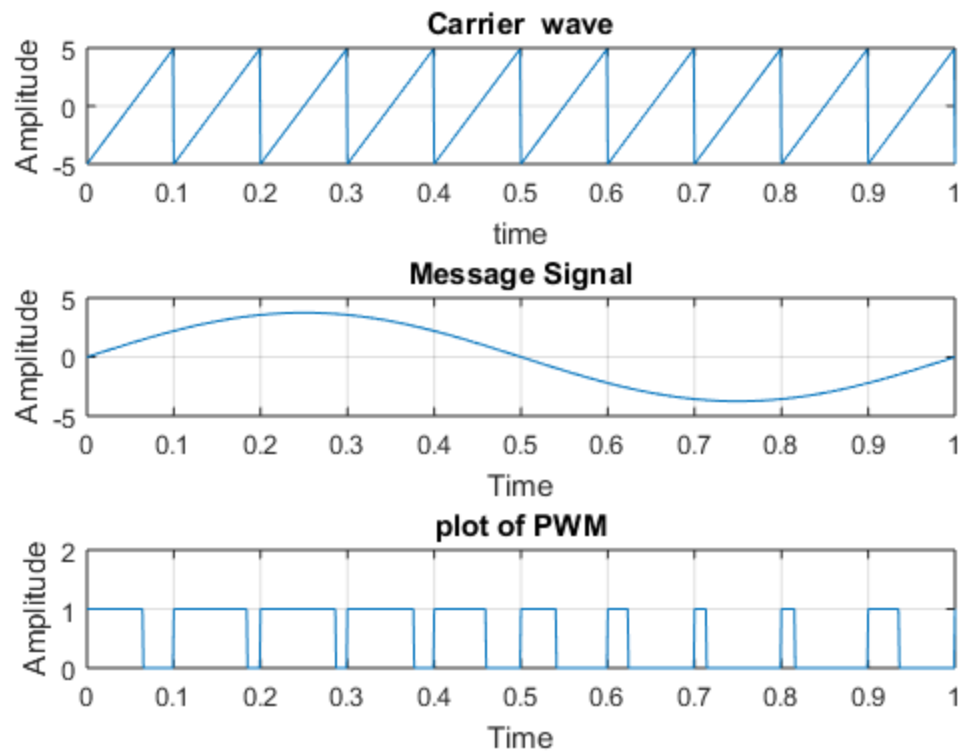


---

```
clc;
clear all;
close all;
%Pulse Modulated Wave
%2017KUCP1017
%Tanuj Mehta
% File Name: tanuj_pmod.m

%F2=input('Message frequency=');
%F1=input('Carrier frequency=');
F2=1;
F1=10;
A=5;
t=0:0.001:1;
c=A.*sawtooth(2*pi*F1*t);
subplot(3,1,1);
plot(t,c);
xlabel('time');
ylabel('Amplitude');
title('Carrier wave');
grid on;
m=0.75*A.*sin(2*pi*F2*t);
subplot(3,1,2);
plot(t,m);
xlabel('Time');
ylabel('Amplitude');
title('Message Signal');
grid on;
n=length(c);
for i=1:n
    if (m(i)>=c(i))
        pwm(i)=1;
    else
        pwm(i)=0;
    end
end
subplot(3,1,3);
plot(t,pwm);
xlabel('Time');
ylabel('Amplitude');
title('plot of PWM');
axis([0 1 0 2]);
grid on;
```



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