

Experiment No. 6 : BPSK

Code : (BPSK)

```
clc;
clear all;
close all;

t=0:0.001:1;
fc = input('Enter Frequency of Carrier Sine Wave: ');
fm = input('Enter message frequency: ');
amp = input('Enter the carrier and message signal amplitude: ');

m = square(2*pi*fm*t);

subplot(3,1,1);
plot(t, m);
xlabel('Time(s)');
ylabel('Amplitude');
title('Message Signal (Square Wave)');
grid on;

C = amp*sin(2*pi*fc*t);

subplot(3,1,2);
plot(t, C);
xlabel('Time(s)');
ylabel('Amplitude');
title('Message Signal (Square Wave)');
grid on;

X = C .* m;
subplot(3, 1, 3);
plot(t, X);
xlabel('Time(s)');
ylabel('Amplitude');
title('Message Signal (Square Wave)');
grid on;
```

Input :

Command Window

```
Enter Frequency of Carrier Sine Wave: 20  
Enter message frequency: 2  
Enter the carrier and message signal amplitude: 5
```

Output :

