

```
1 clc;
2 clear all;
3 close;
4 Eb=input('Enter the energy per bit in joules:');
5 N0=input('Enter the PSD of noise in microwatts/hz:');
6 No=N0*2;
7 x=0:0.001:(Eb/No);
8 Pe_BPSK=0.5*erfc(sqrt(x));
9 plot(x,Pe_BPSK);
10 xlabel('Signal-to-noise-ratio');
11 ylabel('Probability of error-Pe');
12 legend('Pe_BPSK');
13
```

Scilab 6.1.1 Console

Enter the energy per bit in joules:100

Enter the PSD of noise in microwatts/hz:4

--> |

Graphic window number 0

