

```
1 clc;
2 clear all;
3 close;
4 Eb=input('Enter the energy per bit in joules:');
5 Nol=input('Enter the PSD of noise in microwatts/hz:');
6 No=Nol*2;
7 M=input("Enter the number of symbols:");
8 x=0:0.001:(Eb/No);
9 Pe_QAM=0.5*erfc(sqrt(0.4*x));
10 plot(x,Pe_QAM);
11 xlabel('Signal to noise ratio');
12 ylabel('Probability of error Pe');
13 legend('Pe_QAM');
14
```

Scilab 6.1.1 Console

Enter the energy per bit in joules:100

Enter the PSD of noise in microwatts/hz:50

Enter the number of symbols:4

--> |

Graphic window number 0

