EXPT 1 AIM: To generate ASK waveform using Scilab
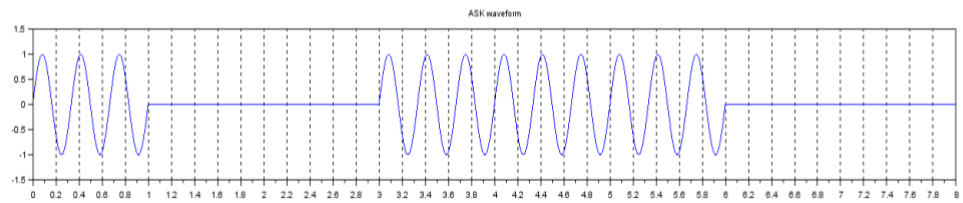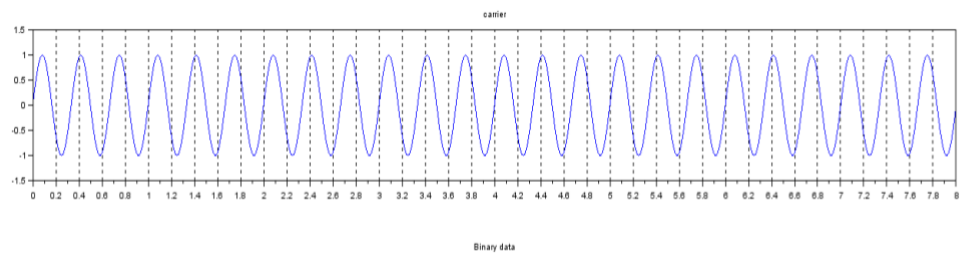
CODE:

```
clear;
clc;
close;
t=0:0.01:1;
f=2
I=[1,0,1,1,0,1,0,1]
z=0;
for n=1: length(I)
   subplot(3,1,1)
   a=gca();
   a.data_bounds=[0,-1.5;length(I),1.5];
   a.x_location="bottom";
   a.grid=[1,-1];
   title('carrier')
   plot((t+z),sin(2*%pi*f*t));


   subplot(3,1,2)
   a=gca();
   a.data_bounds=[0,-1.5;length(I),1.5];
   a.x_location="bottom";
   a.grid=[1,-1];
   title('Binary data')
   plot((t+z),I(n));


   subplot(3,1,3)
   a=gca();
   a.data_bounds=[0,-1.5;length(I),1.5];
   a.x_location="bottom";
   a.grid=[1,-1];
   title('ASK waveform')
   plot((t+z),(sin(2*%pi*f*t))*I(n));
   z=z+1;
```

end

GRAPH 1 :

GRAPH 2 :