LABORATORY 1 REPORT

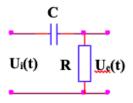
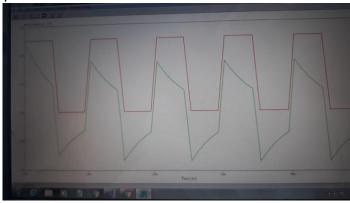


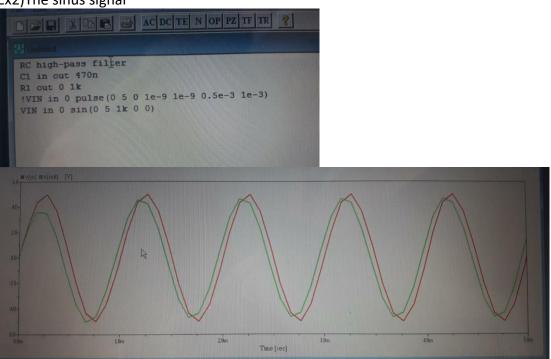
Fig.1.1

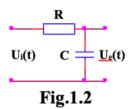
->When we have a RC high-pass filter => high frequency components of a a non-sinusoidal signal on the input appear at the output with a smaller attenuation then low frequency components.





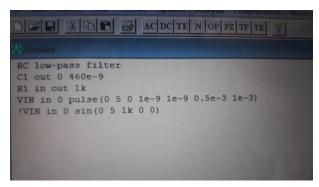
Ex2)The sinus signal

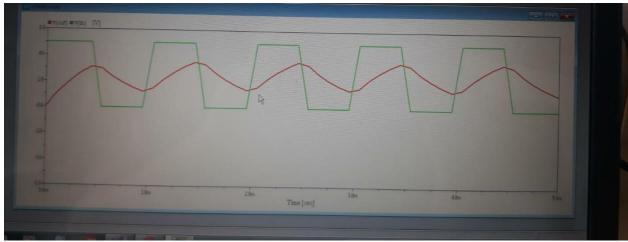




-> When we have a RC low-pass filter => the low frequency components of a non-sinusoidal signal applied at the input appears at the output with a smaller attenuation than high frequency components.

Ex:





EX: for sinus

```
RC low-pass filter
Cl out 0 460e-9
Rl in out 1k
!VIN in 0 pulse(0 5 0 1e-9 1e-9 0.5e-3 1e-3)
VIN in 0 sin(0 5 1k 0 0)
```

