**Verilog-A model of LPF :**



***RC=feed\_res\*feed\_cap;***

***den\_arr[0]=1;***

***den\_arr[1]=RC;***

***num\_arr[0]=feed\_res;***

***V(Voutm\_STG1) <+ laplace\_nd(I(I\_in\_m),num\_arr, den\_arr) ;***

***V(Voutp\_STG1) <+ laplace\_nd(I(I\_in\_p),num\_arr, den\_arr) ;***



Here at point a, the gain of the filter is 1.5K while RC=637.92p And at point b, gain=1.5K while RC=318.96p. The change of the filter behavior is not reflecting according to R and C value. It is only giving the correct filter behavior for the R and C value at time=0.