

Assignment – 03

Name – Md. Farhan Ishmam

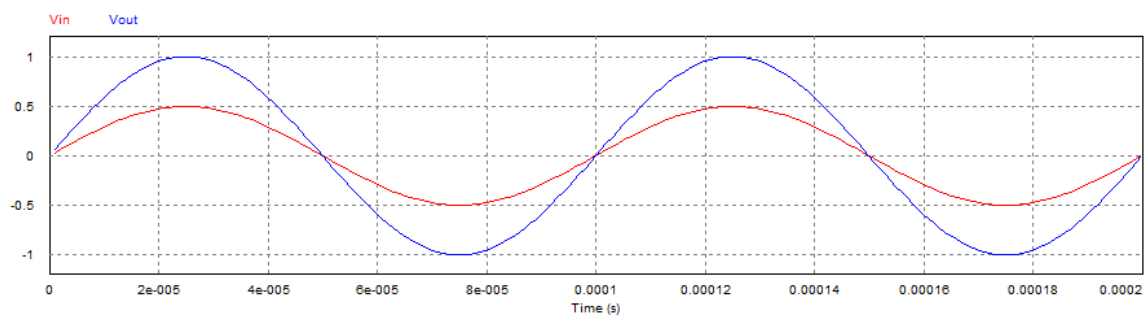
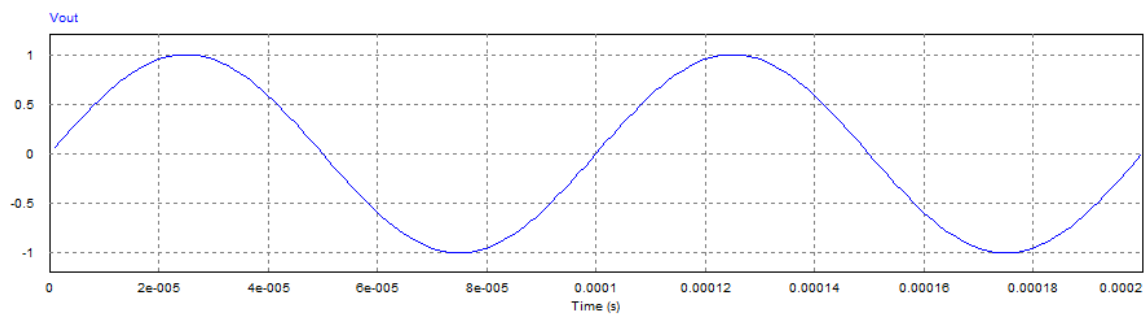
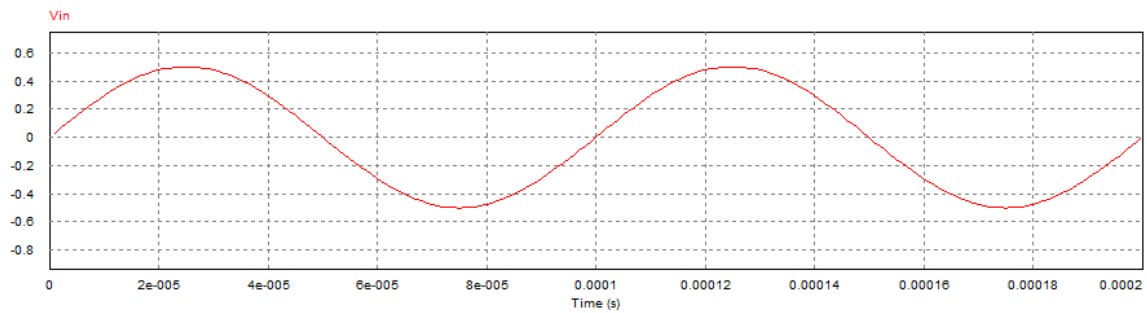
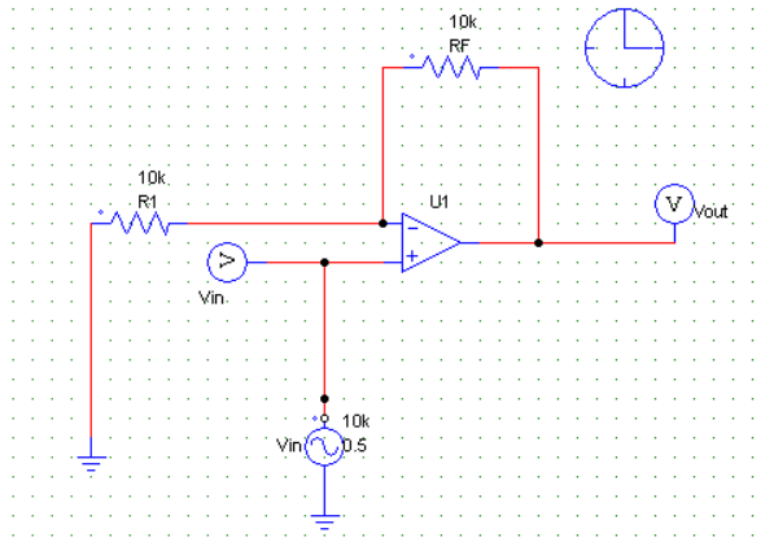
Student ID – 180041120

Department – Computer Science and Engineering

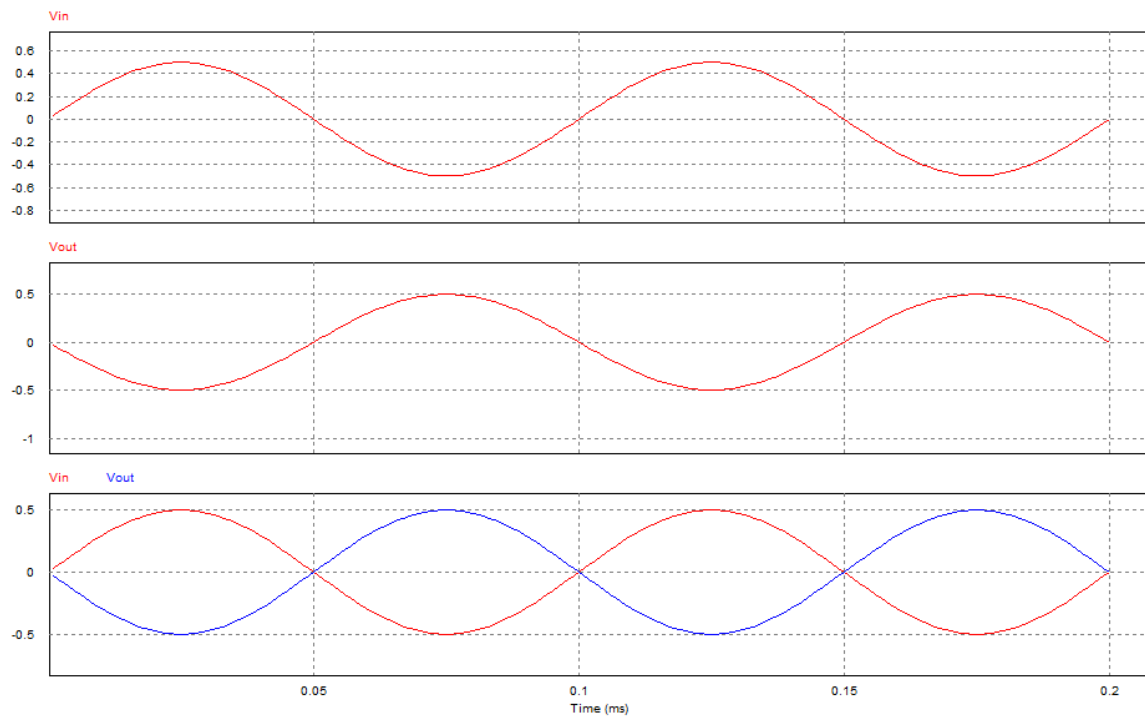
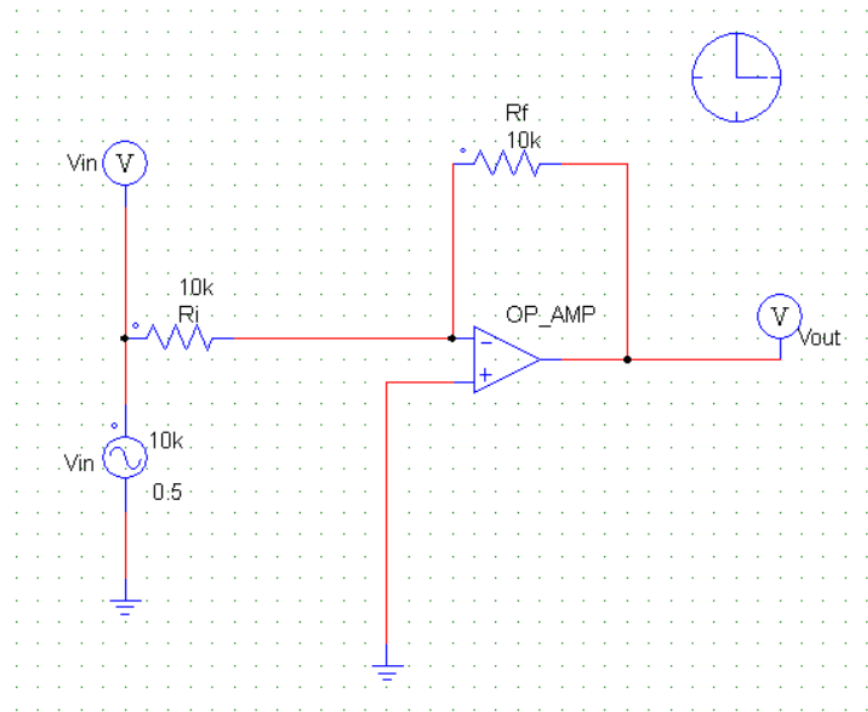
Course Number - EEE 4484

Experiment No. - 03

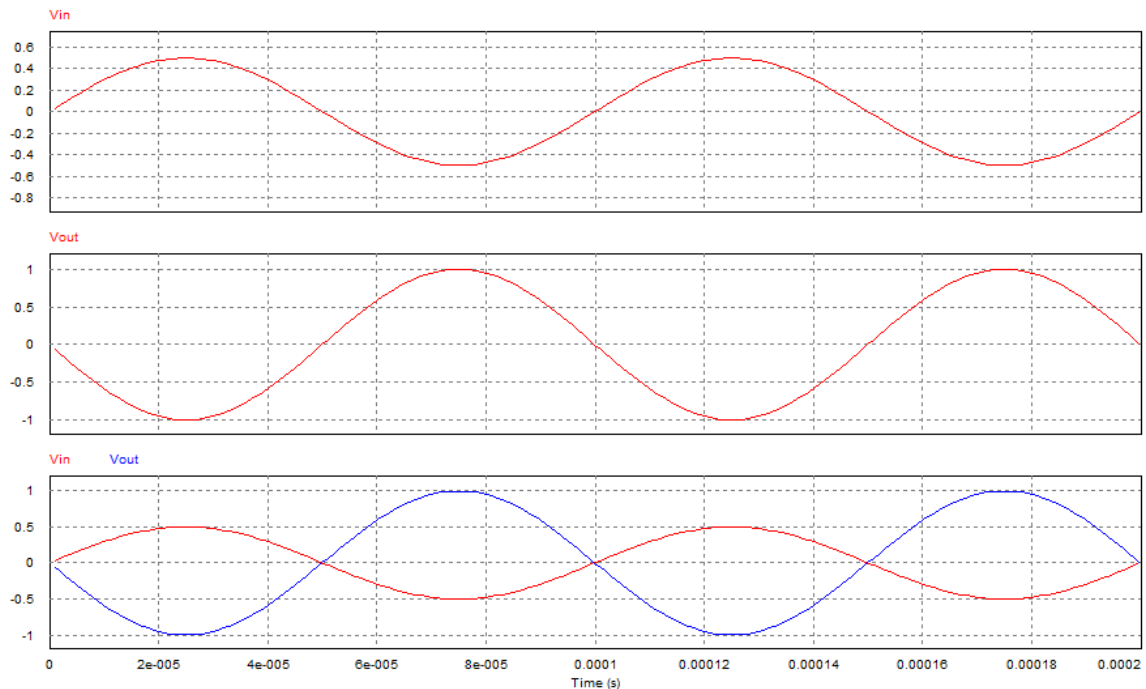
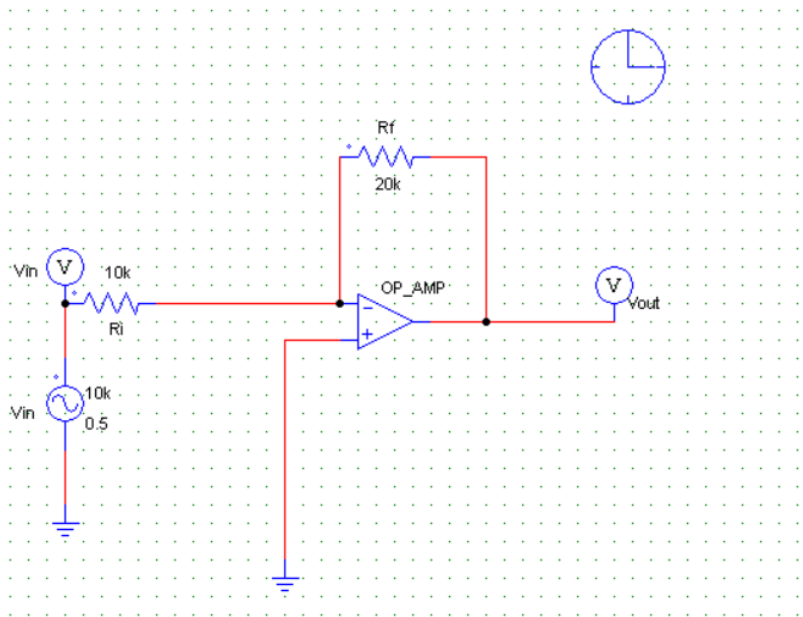
Task – 2



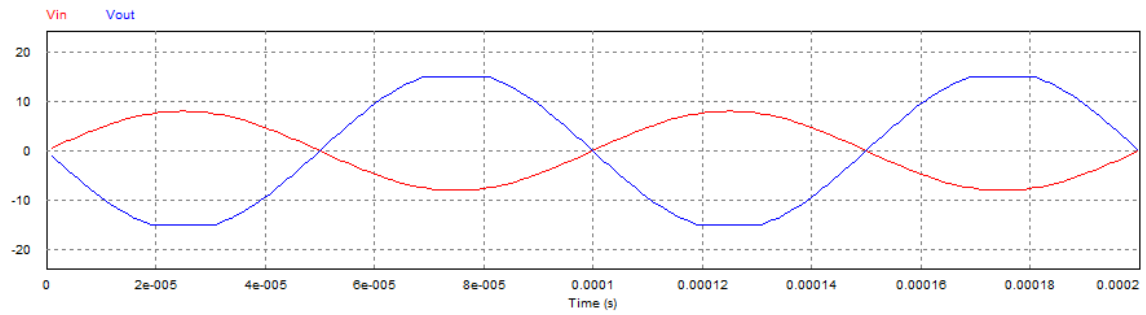
Task - 3



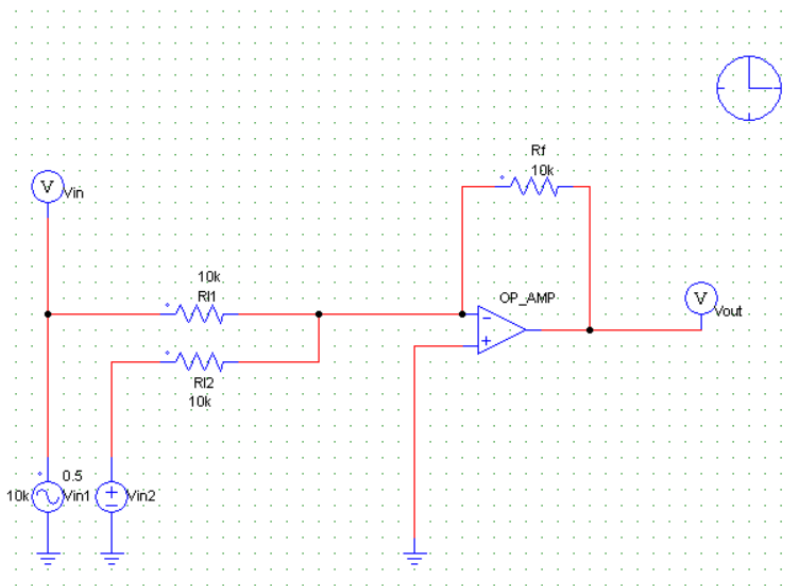
Task - 4



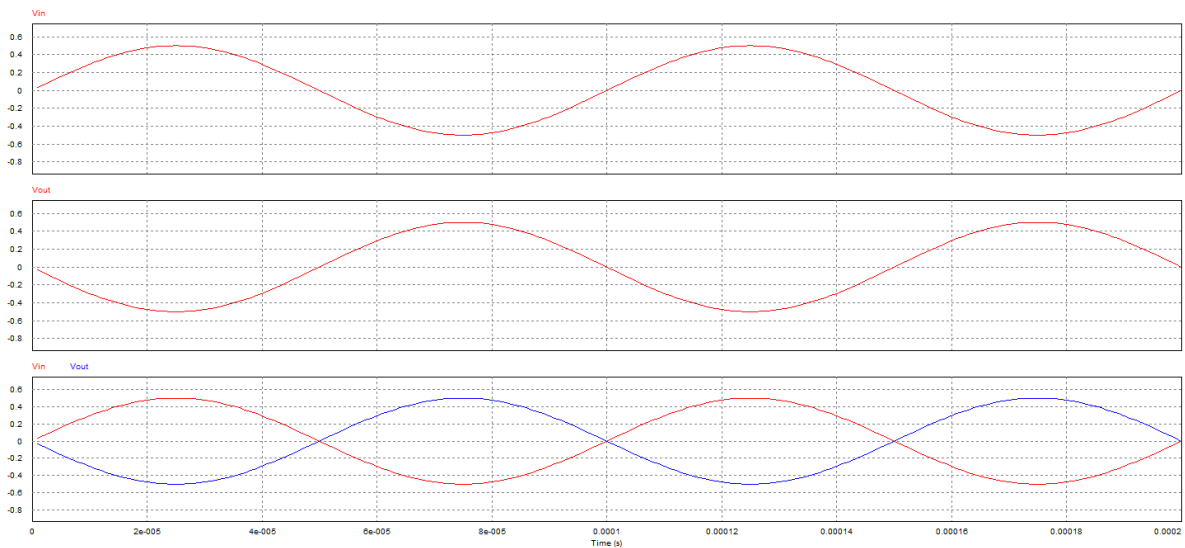
The input peak voltage is increased to 8V and the graph is taken. **At any input peak voltage greater than 7.5 volt, output clipping occurs.** Because the power supplied to the amp is +15 and -15. So, output voltage must be within this range. The op-amp amplifies the signal by 2 times. So, when input peak voltage is more than 7.5 V, output peak voltage become more than 15 V. The op-amp is unable to create waves greater than the supplied power and so, the output wave is clipped.



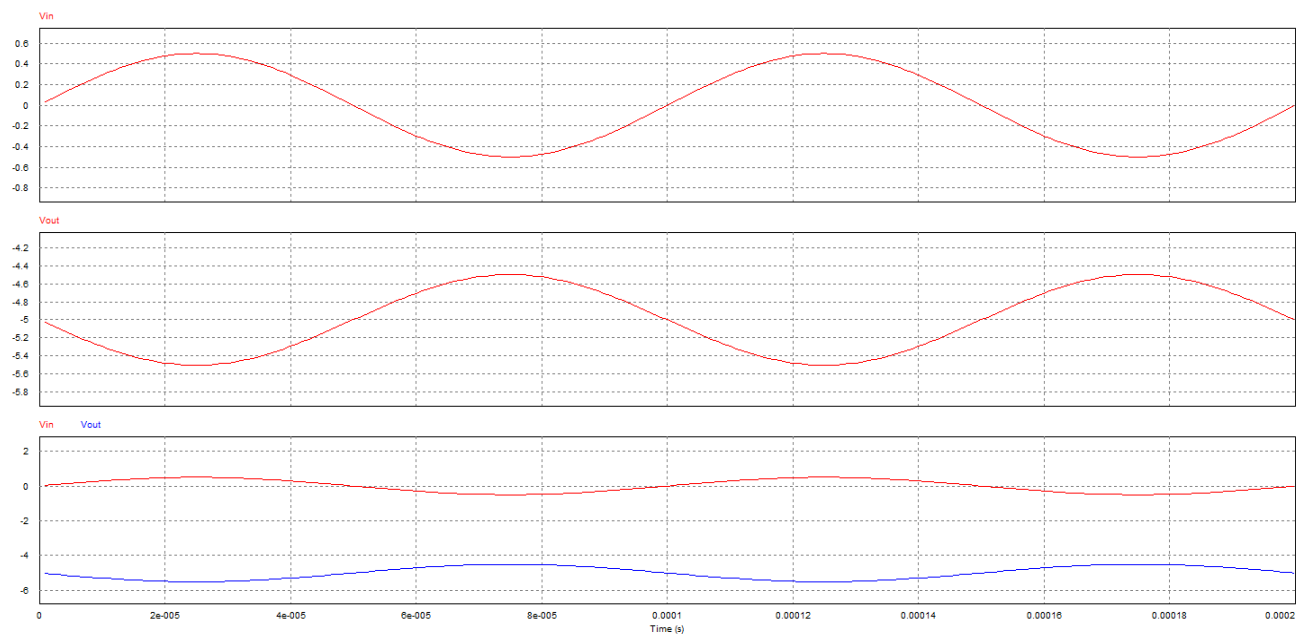
Task – 5



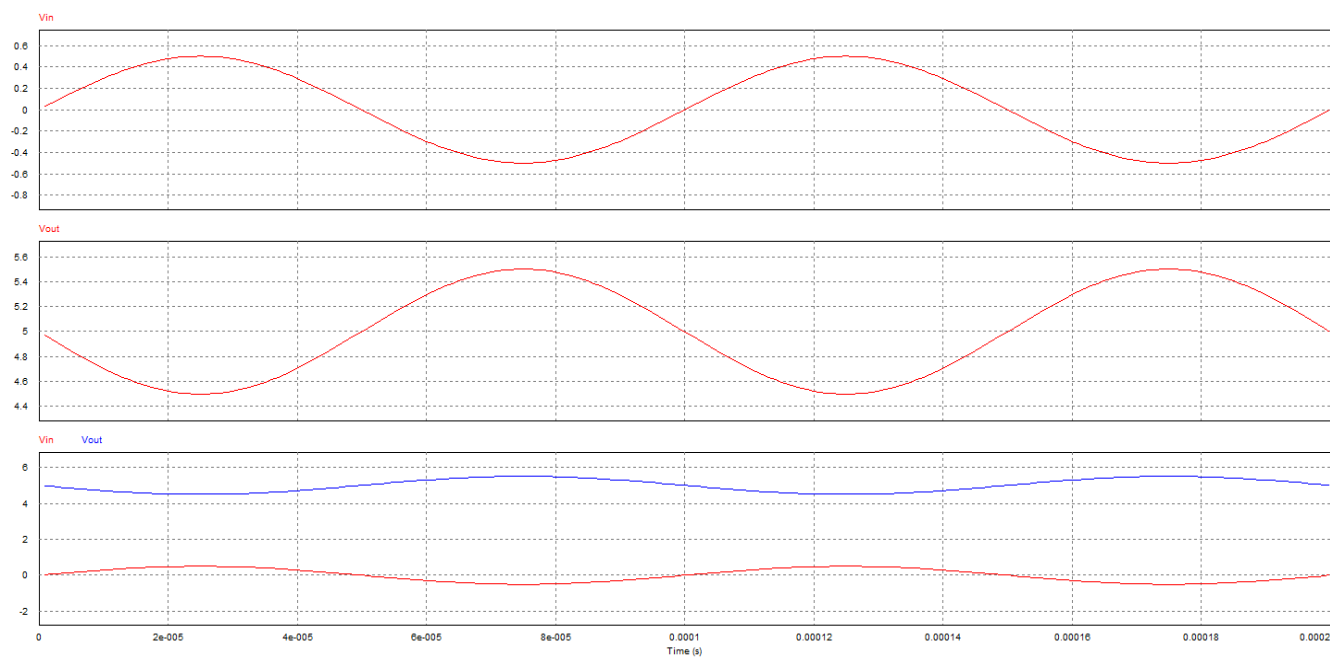
When $V_{in2} = 0V$



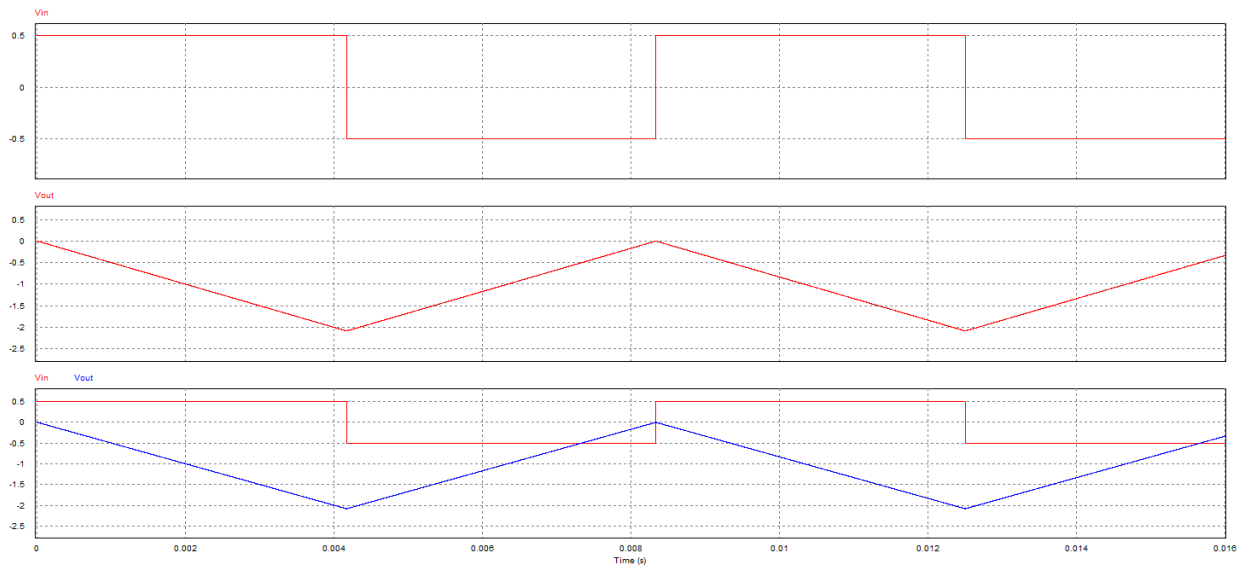
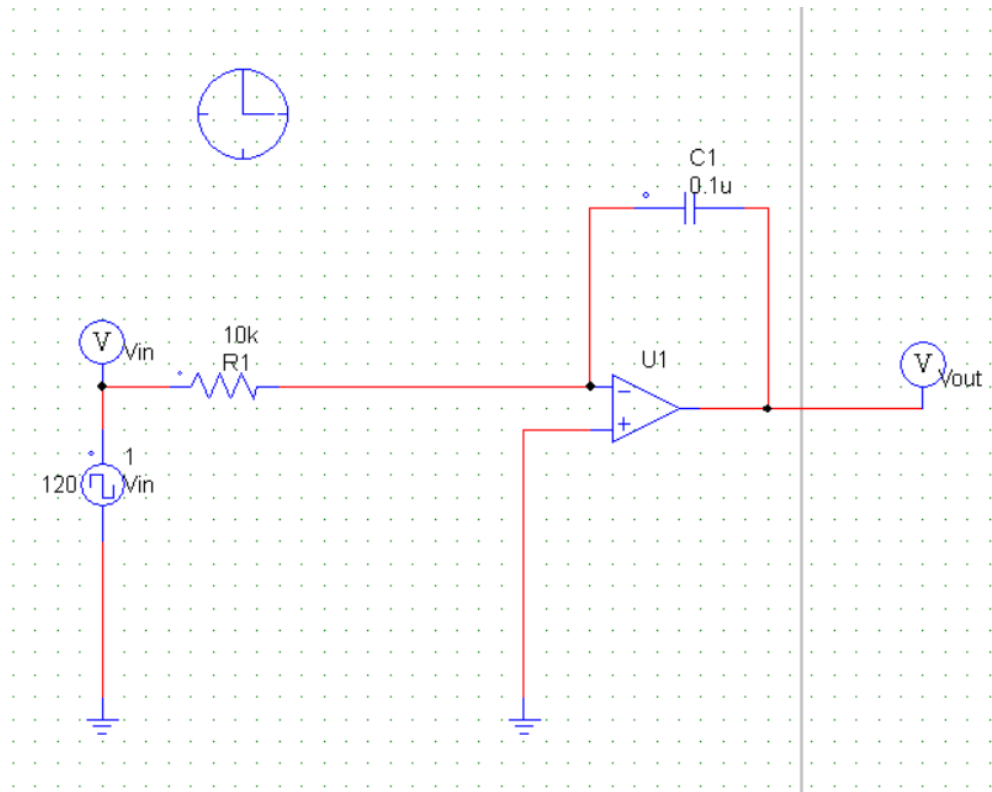
Vin2 = 5V



Vin2 = -5V



Task – 6



Task – 7

