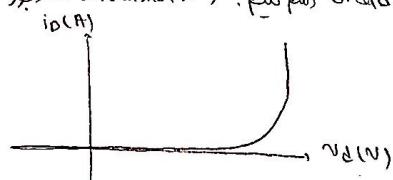


	۱	- مسخنده بند	۲N4001	۱
	۱۰	۹	۸	۷
V_S	۰	۰.۲	۰.۴	۰.۶
V_D	۰	۱۹۱.۸	۳۷۴.۴	۴۴۷.۸
I_D	۰	۱۸۴.۸	۳۶۹.۱	۴۴۷.۱



گزارشکار ۱: با توجه به در درستوار، تر انتیم ۵٪ بمقابل ۸٪ را دارد
است. نظریاً از لایه بعد دسته خلیزی زیادی دار

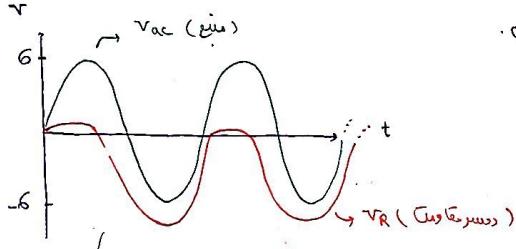


$$V = RL \rightarrow \text{ Resistance } R = \frac{V_d}{I_d} \rightarrow \boxed{\text{مس سیم سیب راس چراهم}} \quad \text{گزارشکار ۲ و ۳:} \\ \text{به عنوان مثال:}$$

$$a = \frac{i_{d1} - i_{d2}}{V_{d1} - V_{d2}} = \frac{3.4m - 3.0m}{4.6.m - 4.29.m} = \frac{0.4}{0.301} \approx 1.33 \rightarrow R \approx 2.8 \quad \text{محاسبه مقدار دینامیکی مقطعی:} \\ \text{مس سیم سیب راس چراهم:}$$

مس سیم سیب راس چراهم: میان مقطعی بین هر ۲ مقطعه کافی است، مس سیم سیب را محاسبه کنیم.

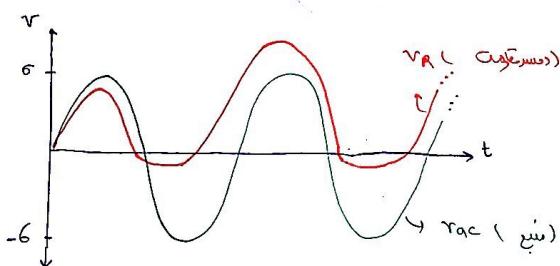
۱-۲-۱ مدارهای clamp: پیش گزارش (۲-۱):



screen shot (۲-۱):

پیش گزارش (۲-۱):

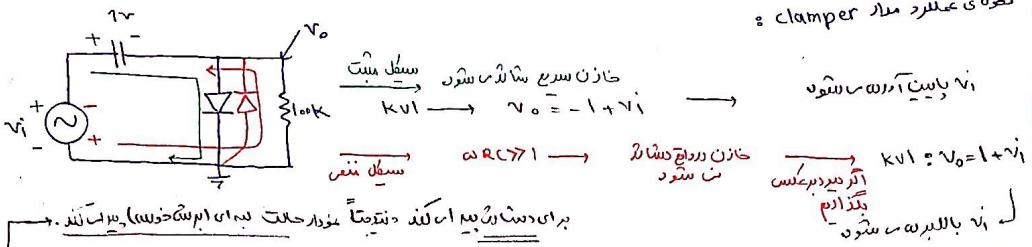
مسئلہ مزبور:



پیش گزارش (۲-۲):

(۱)

نحوه‌ی عملکرد مدار : clampere



گز اسکار-۱) در screenshot های آنده است. ← توضیح : بام شدن ژلتانس، دادن Δ از انتهای سیلک میت چنانچه خازن زبان
گز اسکار-۲) باکم شدن $v_o = \omega RC$ خازن کاهش می‌باشد در این شکل دستاورد خازن تغییر می‌کند. بعد از
میان چنانچه خازن کاهش می‌باشد نیز مدار این می‌باشد. باعث خازن زبان بران دستاورد
روید اینکه جایی است می‌شود نیز اینات بناش (برون خوش) یعنی آنکه

گز اسکار-۳) در screenshot های آنده است. نتیجه می‌شود گز اسکار-۱ است.

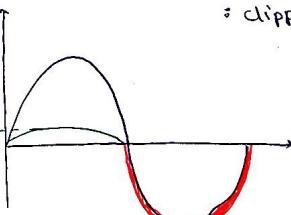
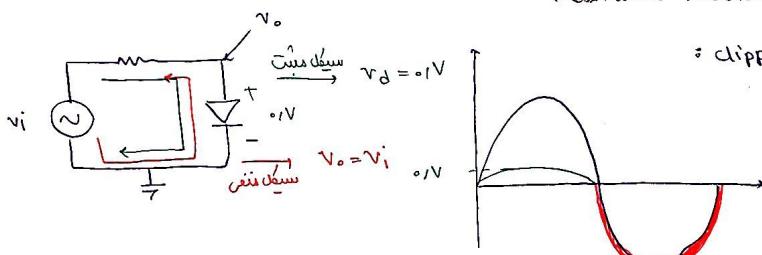
گز اسکار-۴) نتیجه می‌شود گز اسکار-۲، باکم کردن سردار $v_o = \omega RC$ کاهش می‌باشد نیز اینات بناش می‌باشد.

گز اسکار (۴) در screenshot های آنده است.

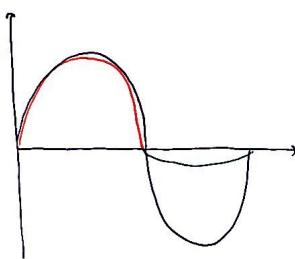
clipper مدارهای ۱-۲-۳-۴

بیش گزارش-۴) در screenshot های آنده است.

نحوه‌ی عملکرد مدار clipper



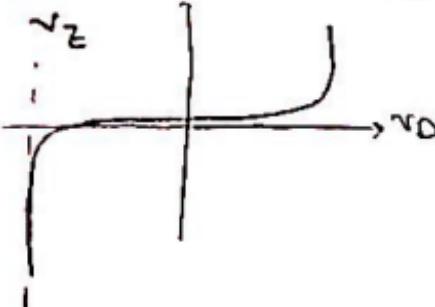
الریخت دیده این می‌شود :



مدارهای برشیدنی با استفاده از میدعهای زیر:

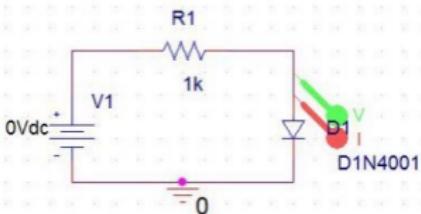
پیش گز (ش-۴) دادن $\text{ctrl} + \text{alt} + \text{screen shot}$.

دخوهی عکس‌گیر، دست میدعه زننده بسته باشد شل که منع می‌شود عمل نکند؛
حینه باعث می‌شود عکس‌گیر دسته شل همان حالت بالله نه منع می‌شود و لستم.





SCHEMATIC1.t

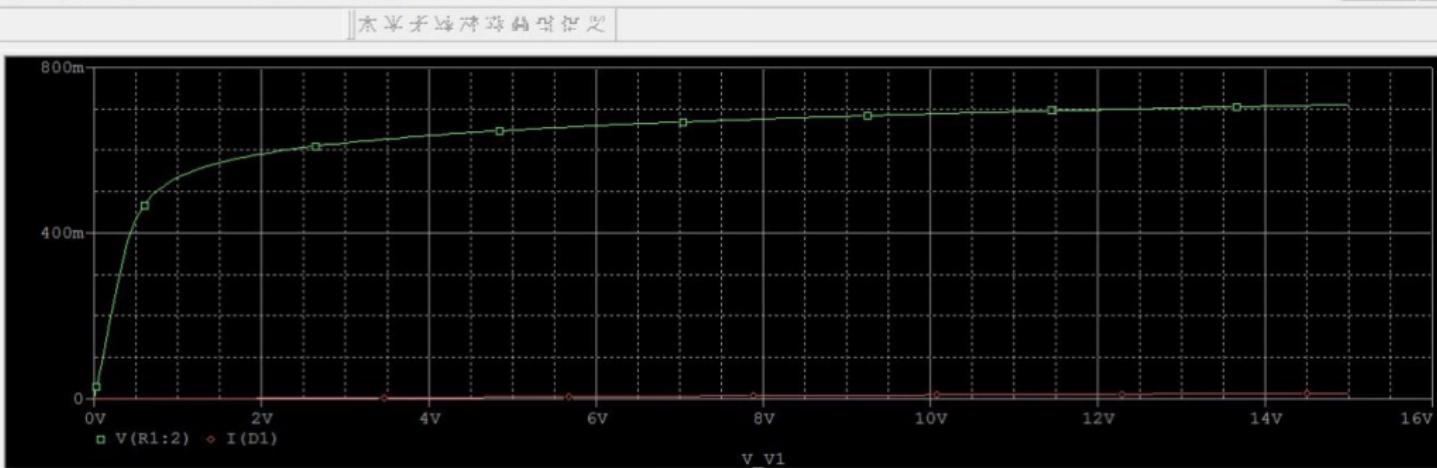


Activate Windows
Go to PC settings to activate Windows

0 items selected Scale=200% X=3.30 Y=1.90



8:58 PM
12/15/2020

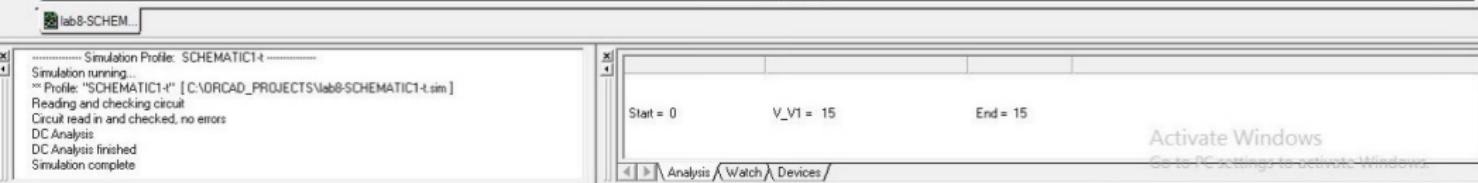
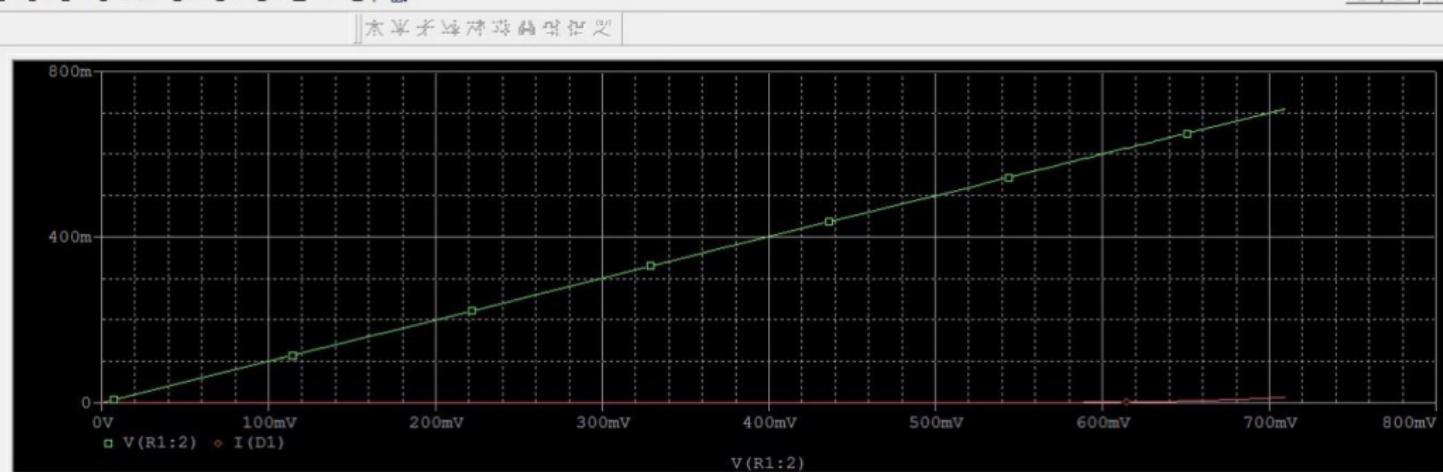
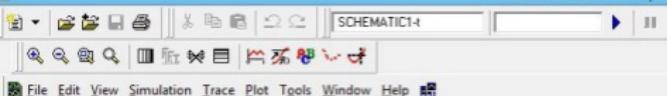


lab8-SCHEMATIC1-t



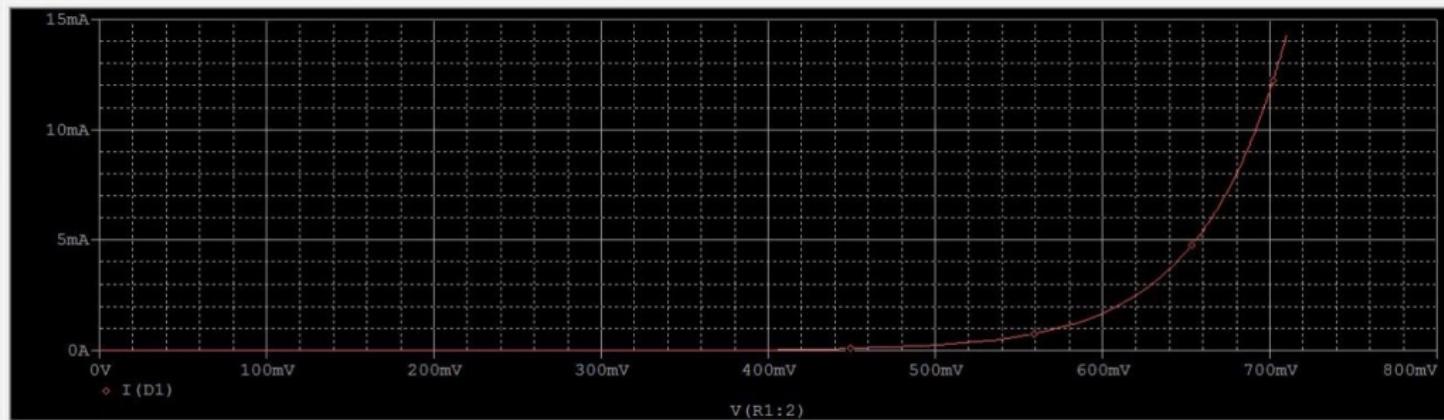
Activate Windows
Go to PC settings to activate Windows.



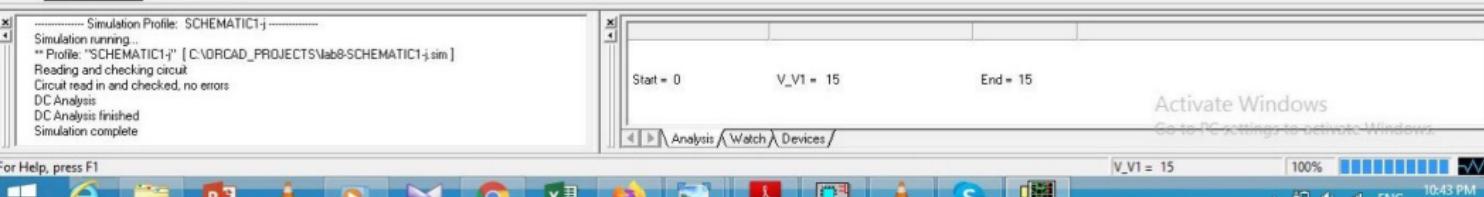


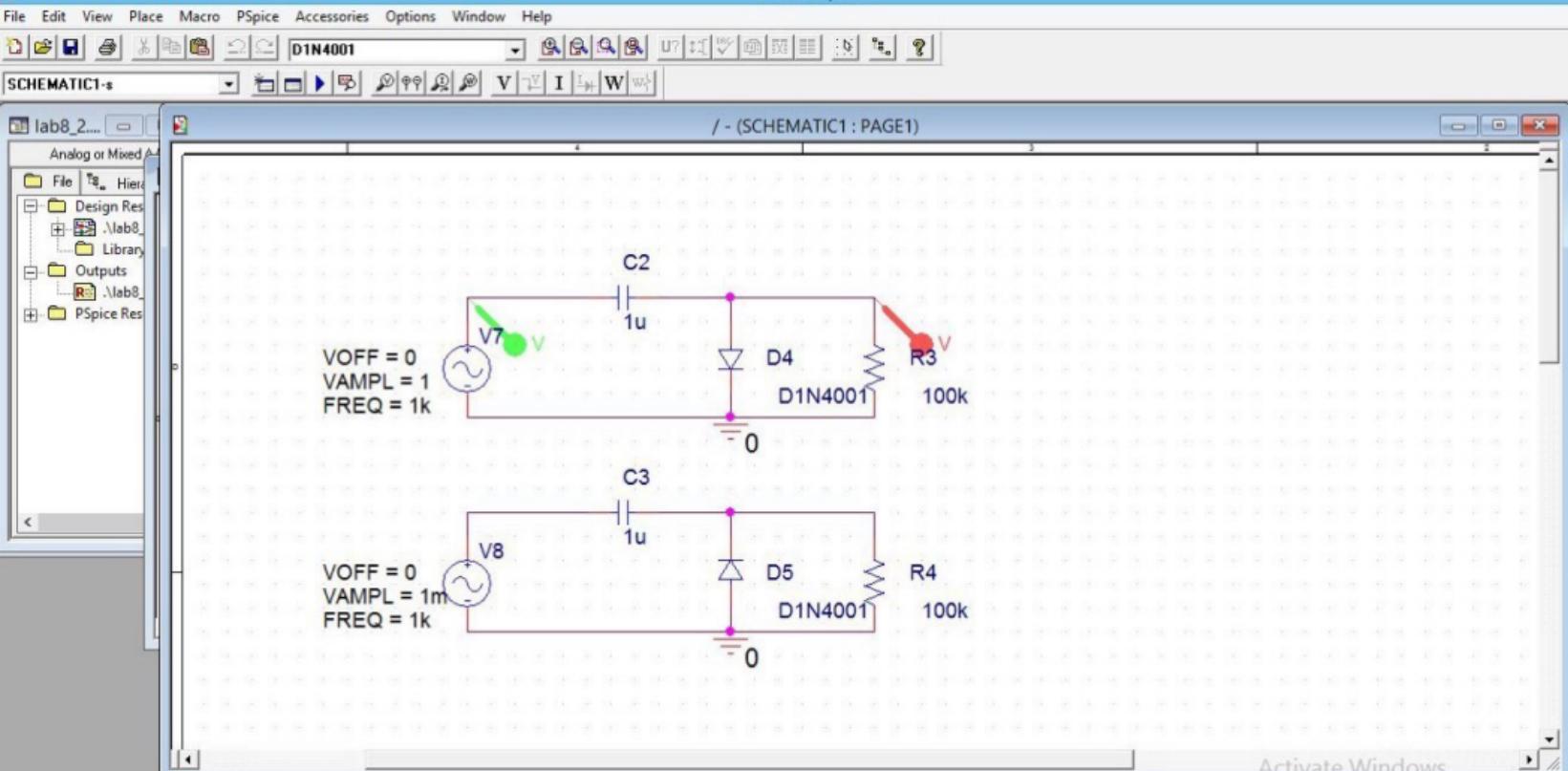


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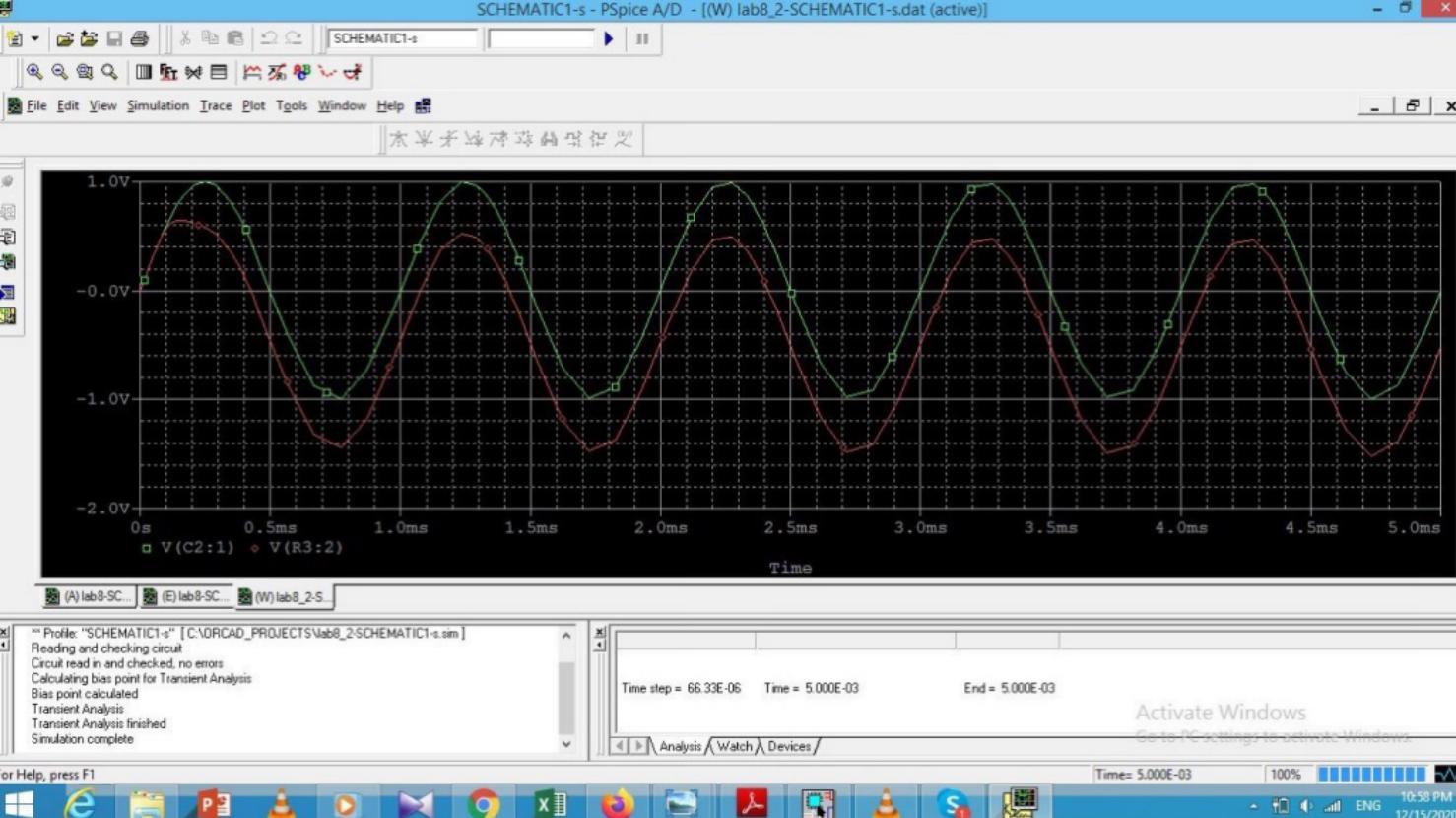


(A) lab8-SCH. (E) lab8-SC...

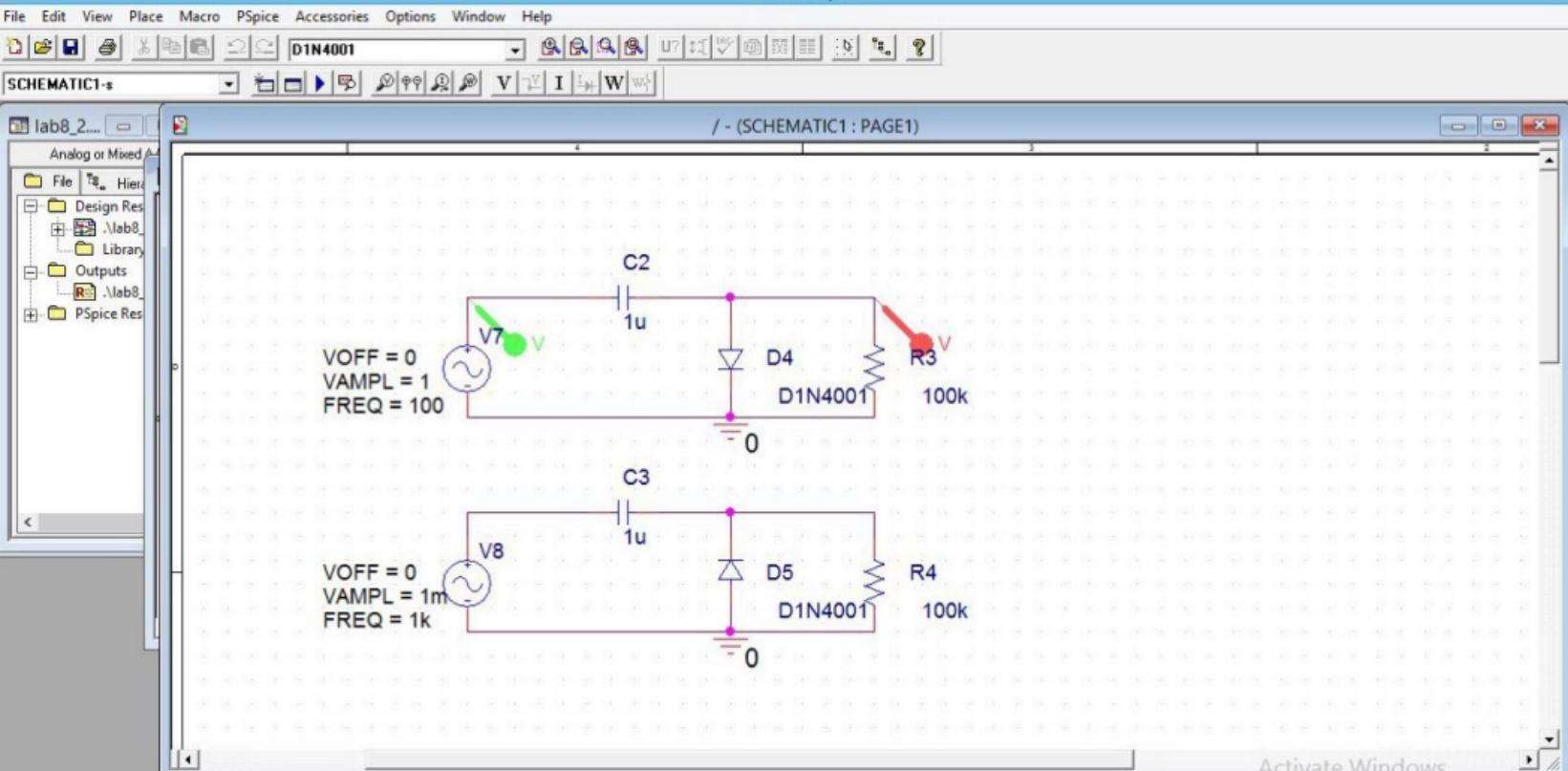


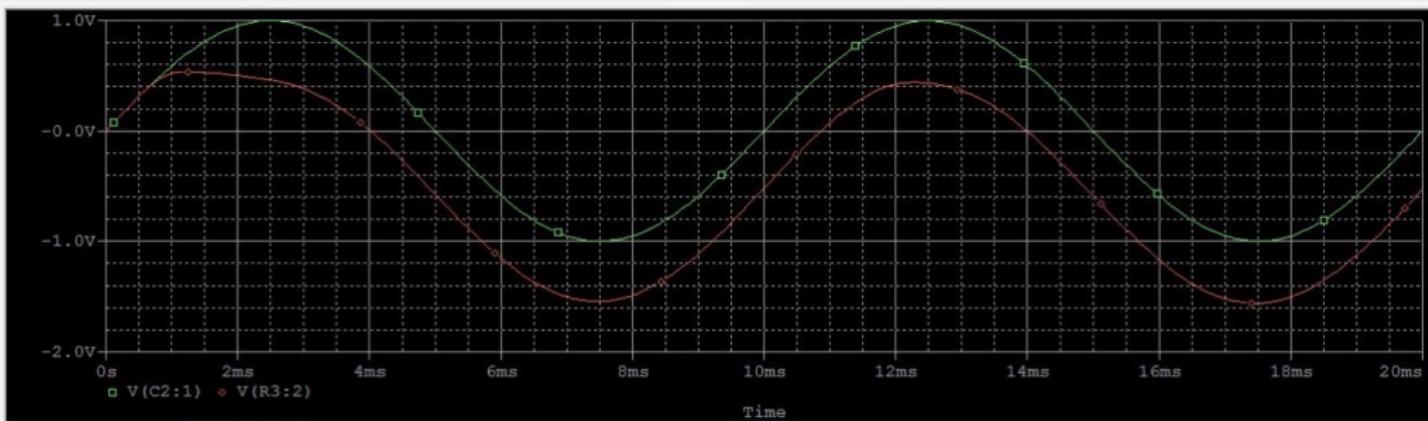


Scanned with CamScanner



Scanned with CamScanner





(A)lab8-SC... (E)lab8-SC... (M)lab8_2.S...

```
Profile: "SCHEMATIC1-s" [C:\ORCAD_PROJECTS\lab8_2\SCHEMATIC1-s.sim]
Reading and checking circuit
Circuit read in and checked, no errors
Calculating bias point for Transient Analysis
Bias point calculated
Transient Analysis
Transient Analysis finished
Simulation complete
```

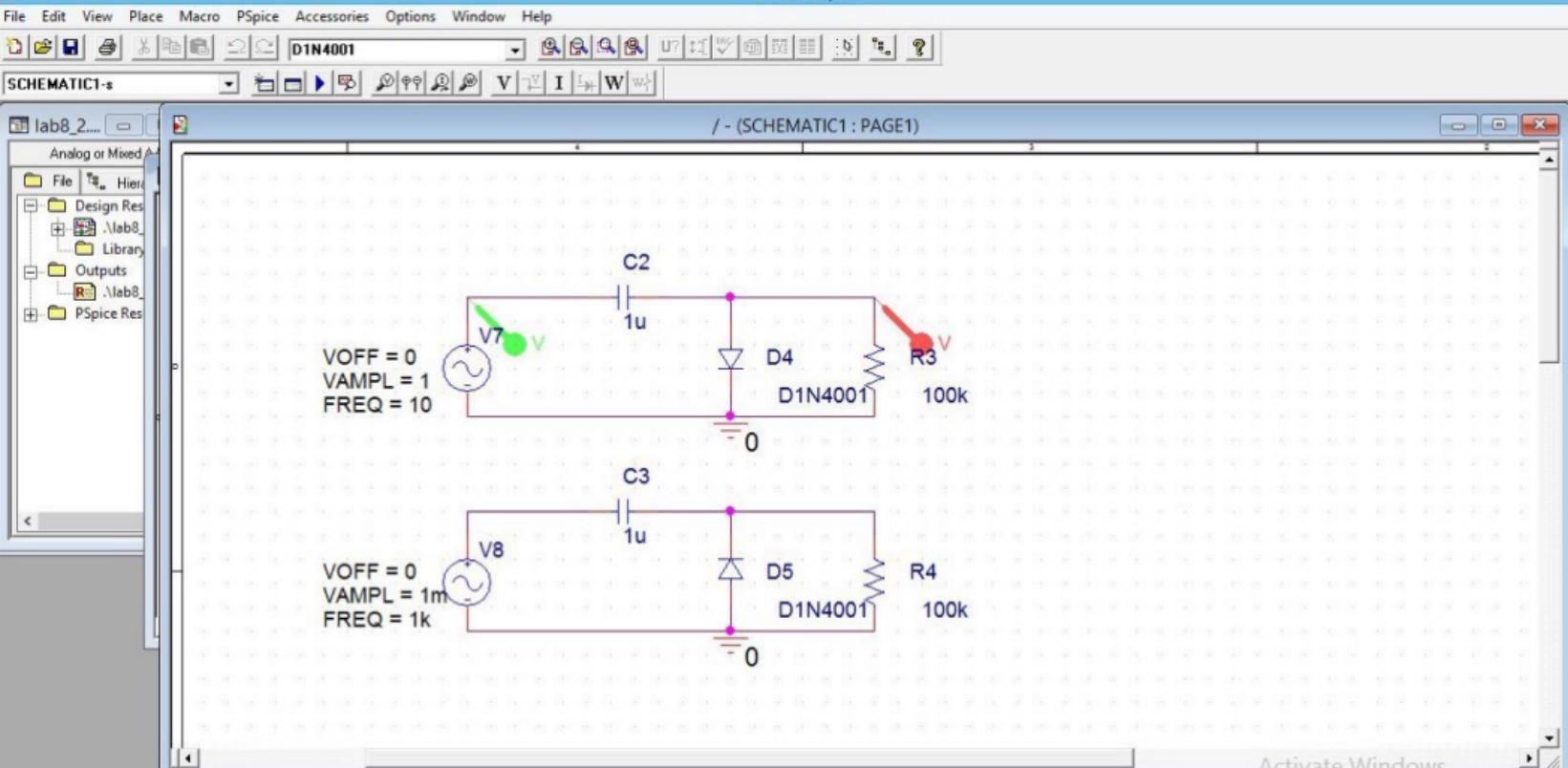
Time step = 4.213E-06 Time = .02 End = .02

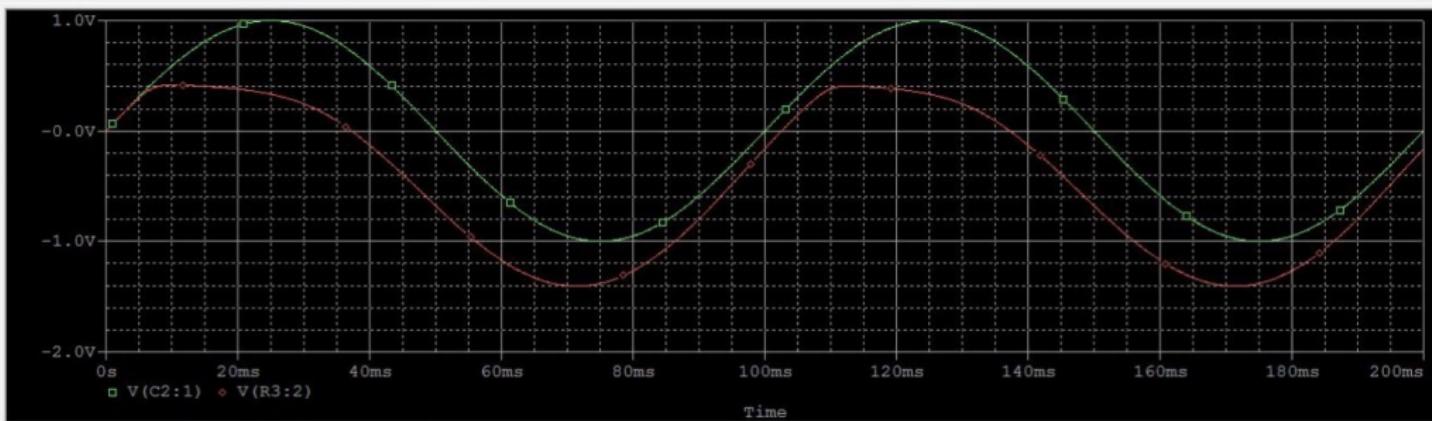
Activate Windows
Go to PC settings to activate Windows.

For Help, press F1

Time=.02 100% 10:58 PM
12/15/2020







(A)lab8-SC... (E)lab8-SC... (Z)lab8_2.S

```
** Profile: "SCHEMATIC1-s" [ C:\ORCAD_PROJECTS\lab8_2-SCHEMATIC1-s.sim ]
Reading and checking circuit
Circuit read in and checked, no errors
Calculating bias point for Transient Analysis
Bias point calculated
Transient Analysis
Transient Analysis finished
Simulation complete
```

Time step = 118.2E-06 Time = .2 End = .2

Activate Windows
Go to [PC settings](#) to activate Windows.

For Help, press F1

Time=.2

100%

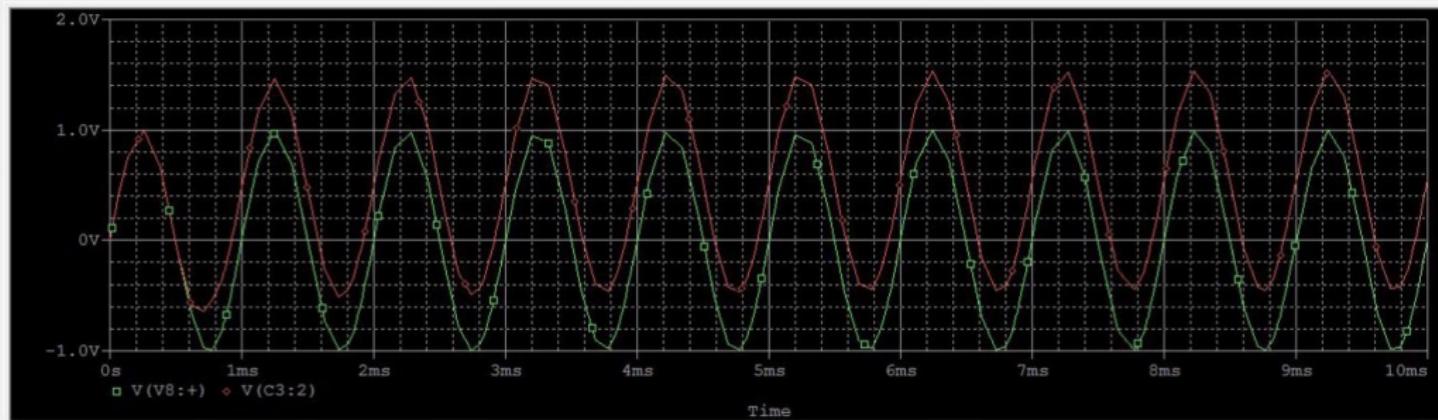
10:58 PM

12/15/2020



File Edit View Simulation Trace Plot Tools Window Help

中文字符输入法



(A)lab8-SC (E)lab8-SC (AB)lab8_2-

```
** Profile: "SCHEMATIC1-s" [ C:\ORCAD_PROJECTS\lab8_2-SCHEMATIC1-s.sim ]
Reading and checking circuit
Circuit read in and checked, no errors
Calculating bias point for Transient Analysis
Bias point calculated
Transient Analysis
Transient Analysis finished
Simulation complete
```

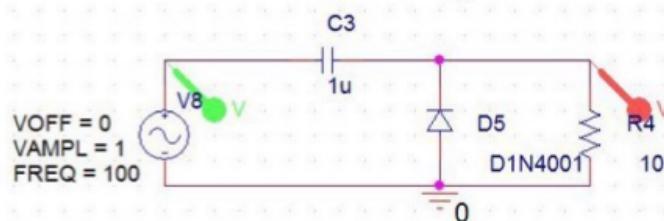
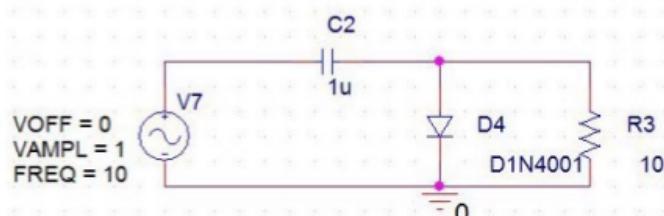
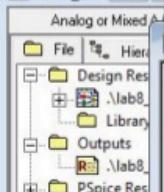
Time step = 2.985E-06 Time = .01 End = .01

Activate Windows
Go to PC settings to activate Windows

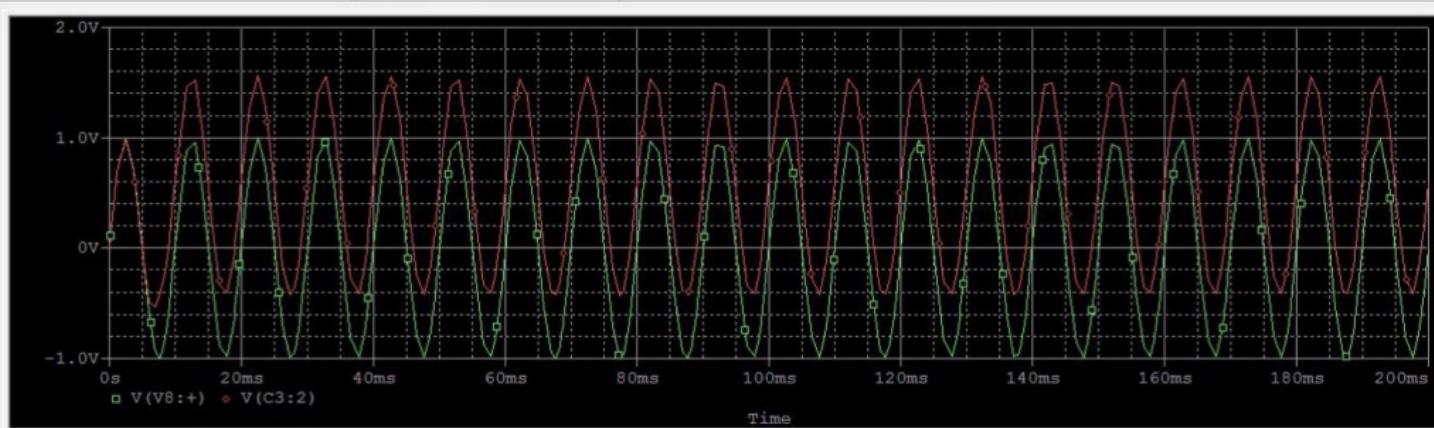
For Help, press F1

Time=.01 100% 10:59 PM 12/15/2020





Activate Windows

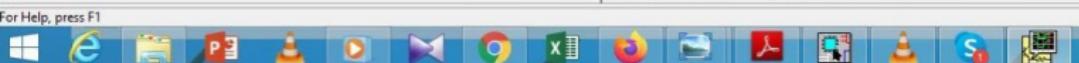


(A) lab8-SC... (E) lab8-SC... (AD) lab8_2...

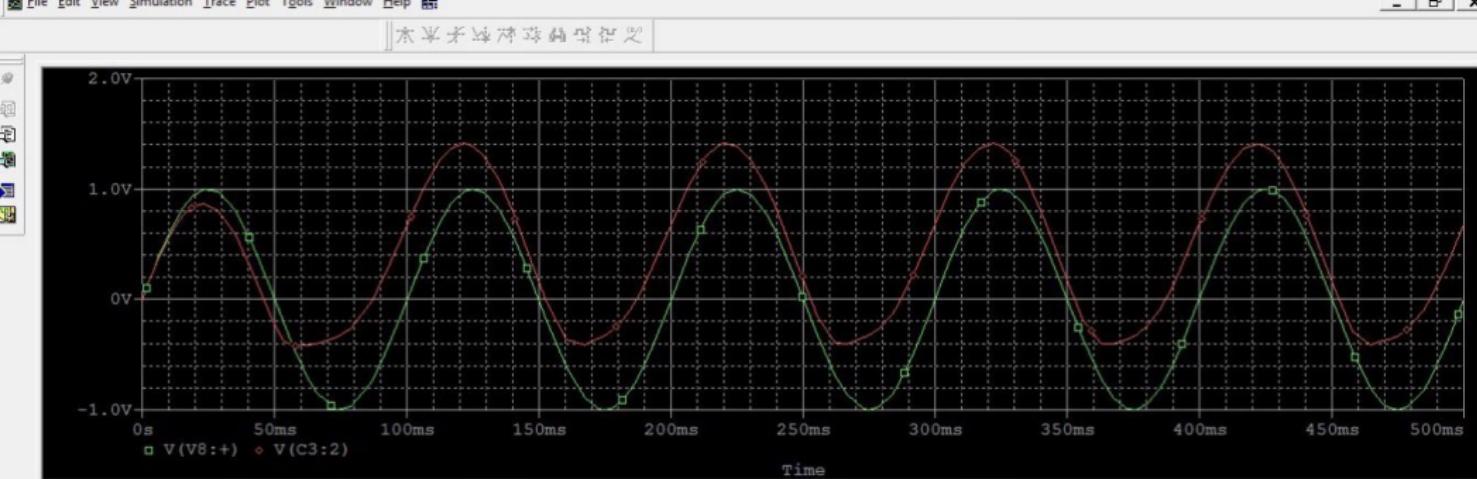
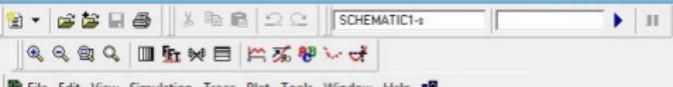
```
** Profile: "SCHEMATIC1-s" [C:\ORCAD_PROJECTS\lab8_2-SCHEMATIC1-s.sim]
Reading and checking circuit
Circuit read in and checked, no errors
Calculating bias point for Transient Analysis
Bias point calculated
Transient Analysis
Transient Analysis finished
Simulation complete
```

Time step = 8.188E-06 Time = .2 End = .2

Activate Windows
Go to PC settings to activate Windows.



Time: .2 100% ENG 10:59 PM
12/15/2020



(A) lab8-SC... (E) lab8-SC... (AF) lab8_2-...

Profile: "SCHEMATIC1-s" [C:\ORCAD_PROJECTS\lab8_2-SCHEMATIC1-s.sim]
Reading and checking circuit
Circuit read in and checked, no errors
Calculating bias point for Transient Analysis
Bias point calculated
Transient Analysis
Transient Analysis finished
Simulation complete

Time step = 4.755E-03 Time = .5 End = .5
Analysis Watch Devices

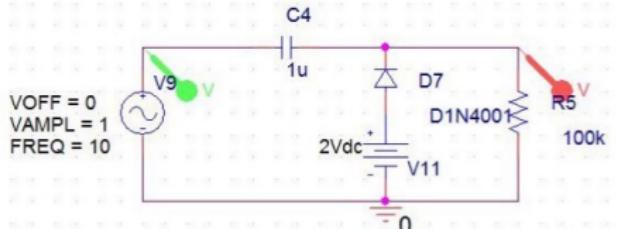
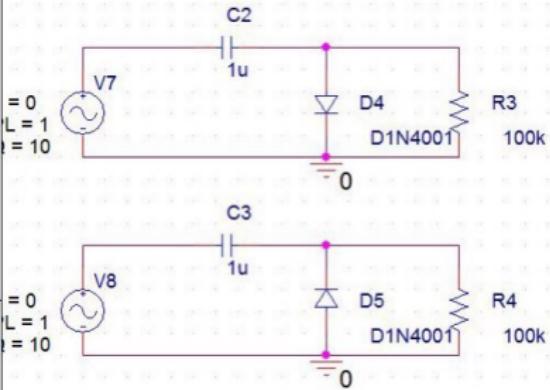
Activate Windows
Go to PC settings to activate Windows.

or Help, press F1



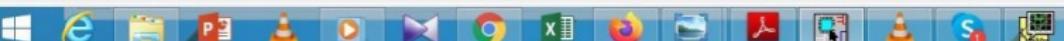


SCHEMATIC1.s

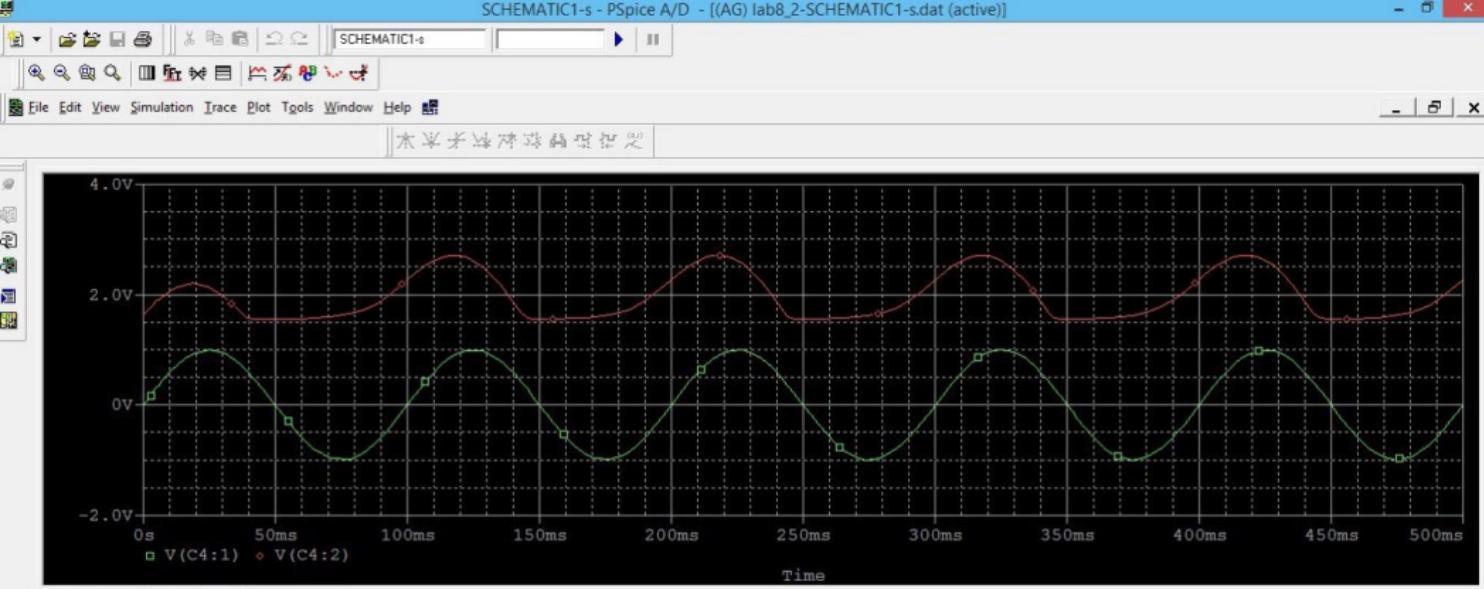


Activate Windows
Go to PC settings to activate Windows

0 items selected Scale=200% X=6.20 Y=2.00



11:06 PM
12/15/2020



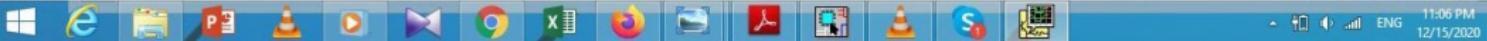
(A)lab8-SC... (E)lab8-SC... (AG) lab8_2-...

Profile: "SCHEMATIC1-s" [C:\ORCAD_PROJECTS\lab8_2-SCHEMATIC1-s.sim]
Reading and checking circuit
Circuit read in and checked, no errors
Calculating bias point for Transient Analysis
Bias point calculated
Transient Analysis
Transient Analysis finished
Simulation complete

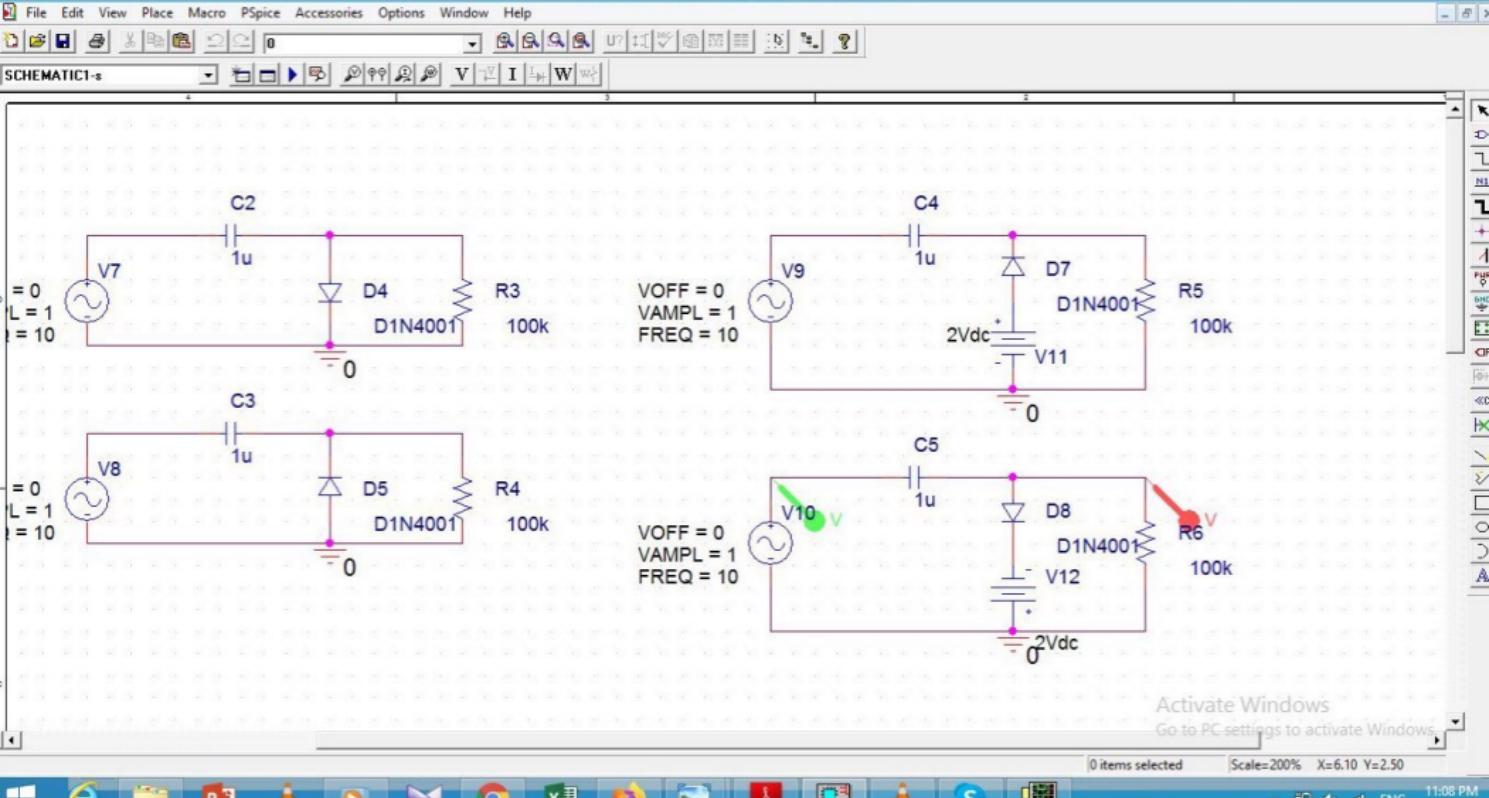
Time step = 396.5E-06 Time = .5 End = .5
Analysis Watch Devices

Activate Windows
Go to PC settings to activate Windows.

For Help, press F1



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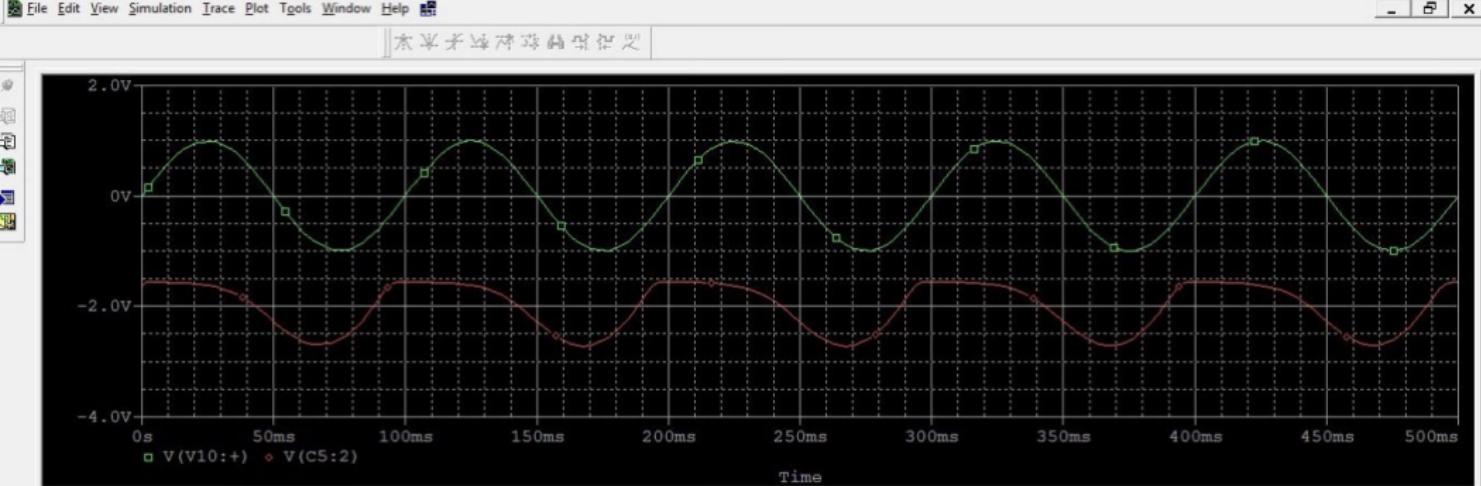
Activate Windows

Go to PC settings to activate Windows

0 items selected

Scale=200% X=6.10 Y=2.50





(A) lab8-SC... (E) lab8-SC... (AI) lab8_2-S...

```
** Profile: "SCHEMATIC1-s" [ C:\ORCAD_PROJECTS\lab8_2-SCHEMATIC1-s.sim ]
Reading and checking circuit
Circuit read in and checked, no errors
Calculating bias point for Transient Analysis
Bias point calculated
Transient Analysis
Transient Analysis finished
Simulation complete
```

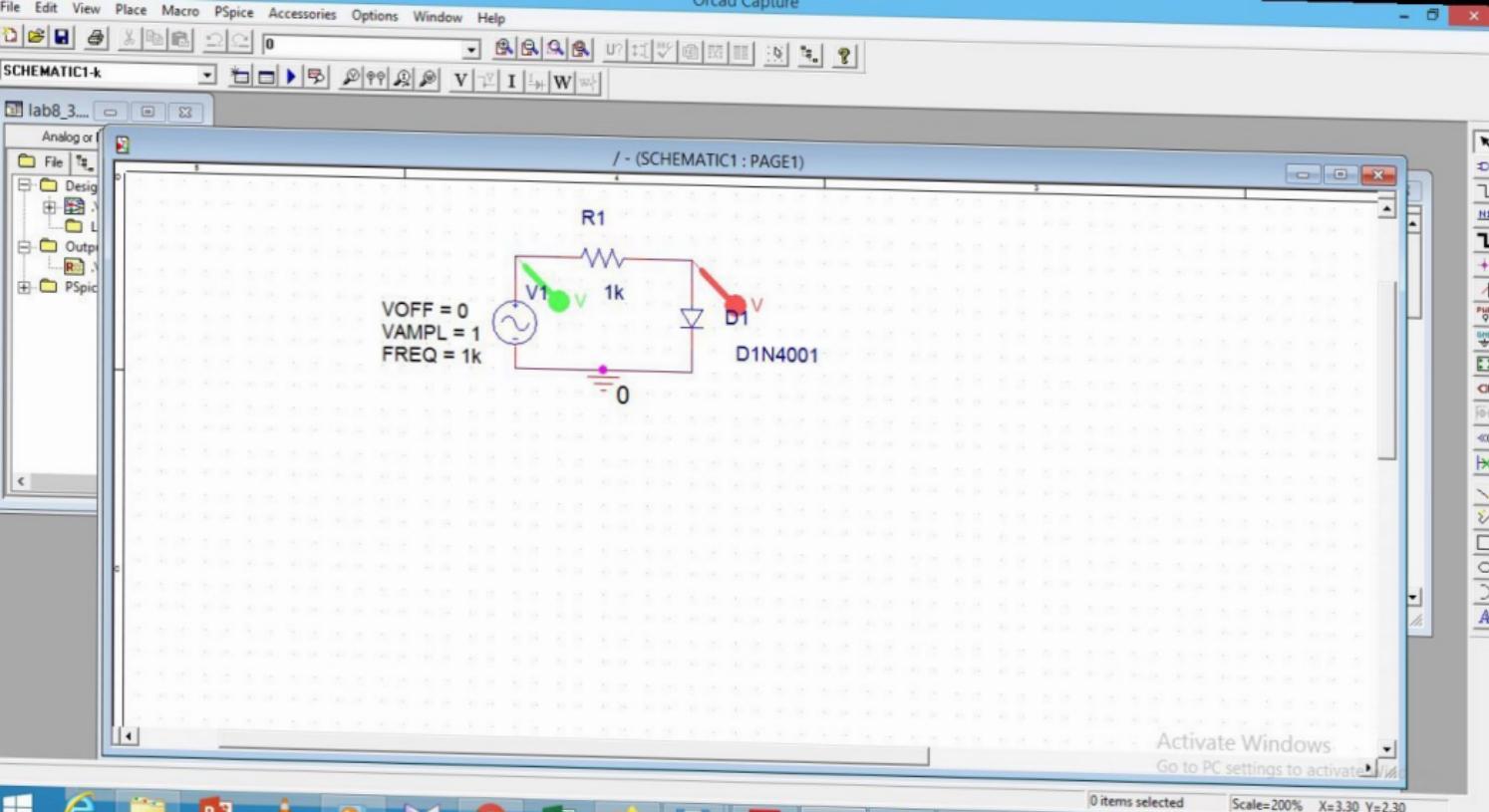
Time step = 1.378E-03 Time = .5

End = .5

Activate Windows
Go to PC settings to activate Windows.

or Help, press F1

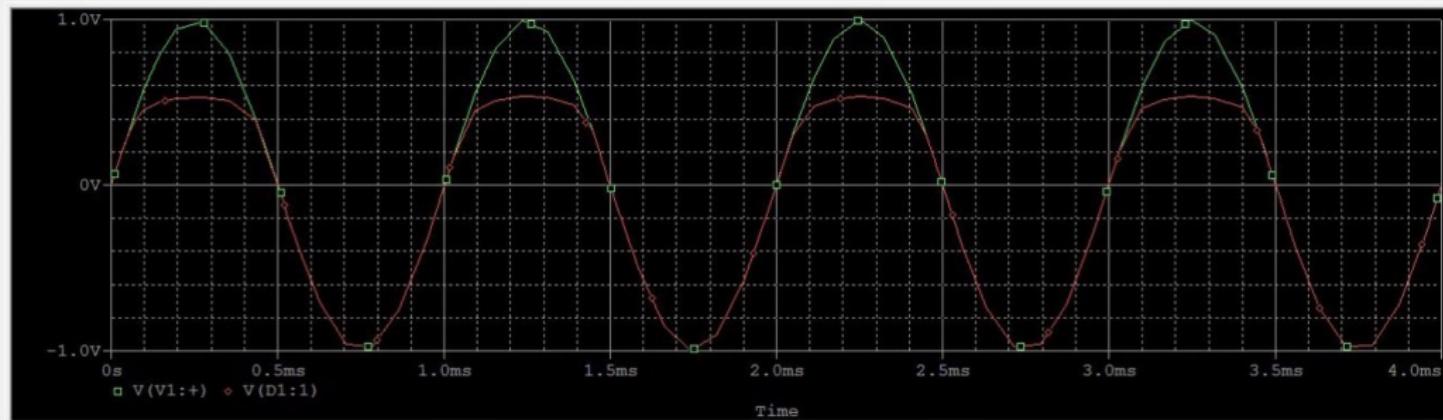






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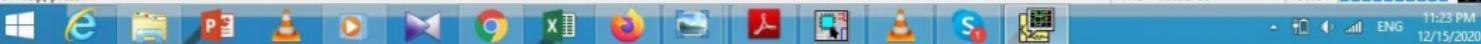
(A) lab8-SC... (E) lab8-SC... (A) lab8_2-... (AN) lab8_3-...

```
** Profile: "SCHEMATIC1-k" [ C:\ORCAD_PROJECTS\lab8_3\SCHEMATIC1-k.sim ]
Reading and checking circuit
Circuit read in and checked, no errors
Calculating bias point for Transient Analysis
Bias point calculated
Transient Analysis
Transient Analysis finished
Simulation complete
```

Time step = 47.36E-06 Time = 4.000E-03 End = 4.000E-03

Activate Windows
Go to PC settings to activate Windows.

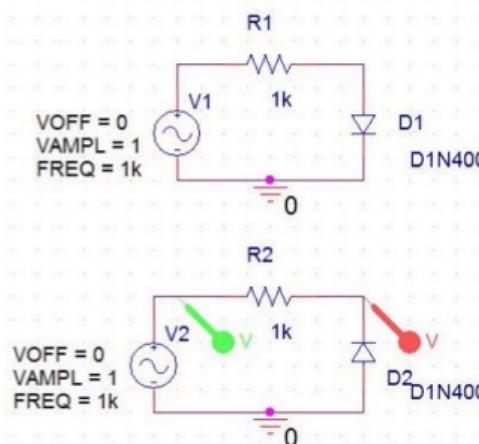
or Help, press F1





SCHEMATIC1-k

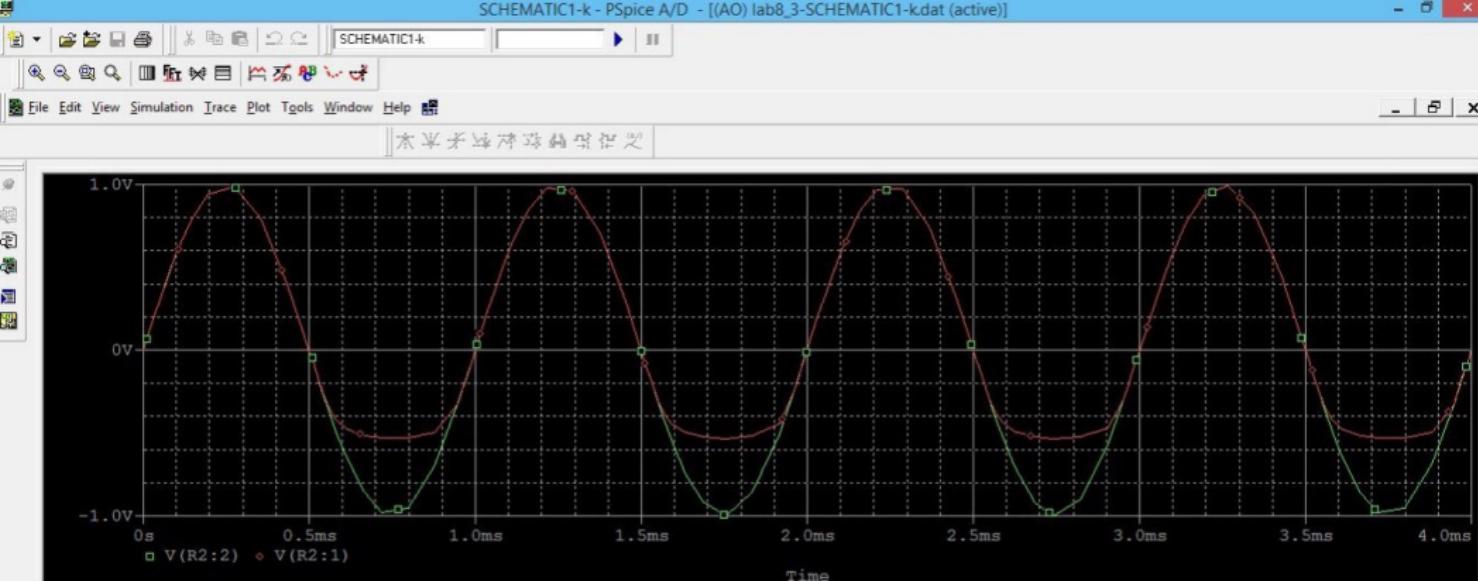
lab8_3...

Analog or
Design
Output
PSpic

Activate Windows
Go to PC settings to activate

0 items selected Scale=200% X=4.00 Y=2.90

Scanned with CamScanner



(A) lab8-SC... (E) lab8-SC... (A) lab8_2-... (AO) lab8_3-...

Profile: "SCHEMATIC1-k" [C:\ORCAD_PROJECTS\lab8_3\SCHEMATIC1-k.sim]
Reading and checking circuit
Circuit read in and checked, no errors
Calculating bias point for Transient Analysis
Bias point calculated
Transient Analysis
Transient Analysis finished
Simulation complete

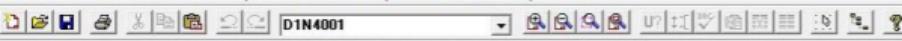
Time step = 1.830E-06 Time = 4.000E-03 End = 4.000E-03
Analysis Watch Devices

Activate Windows
Go to PC settings to activate Windows.

For Help, press F1

Time: 4.000E-03 100% ENG 11:24 PM 12/15/2020

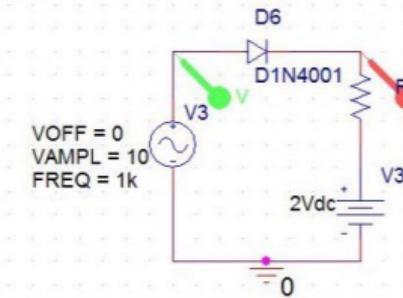
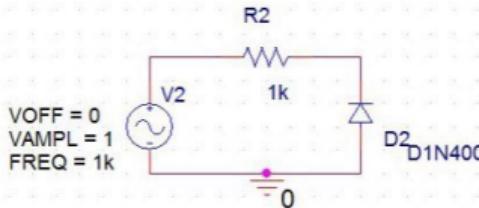
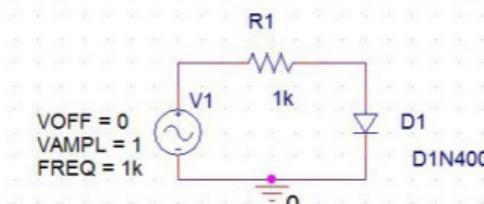
Scanned with CamScanner



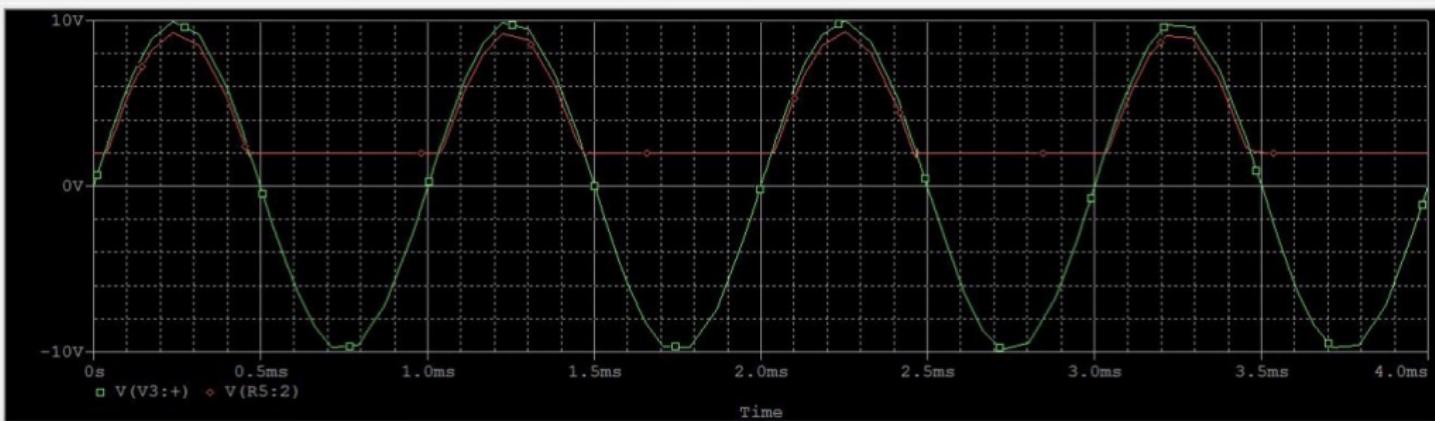
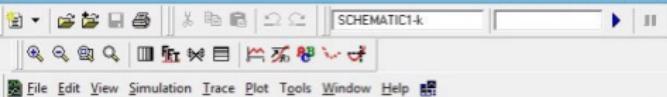
SCHEMATIC1-k

lab8_3...

Analog or

File Design
Output
PSpic

Activate Windows
Go to PC settings to activate



(A) lab8-SC... (E) lab8-SC... (A) lab8_2-... (AU) lab8_3-...

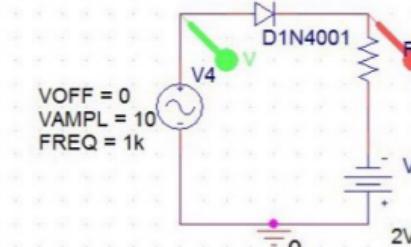
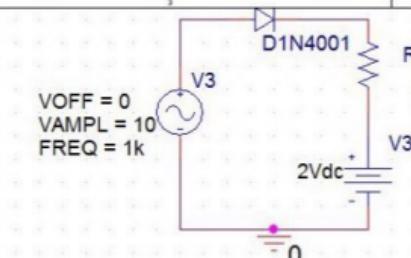
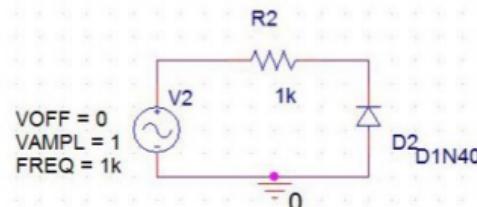
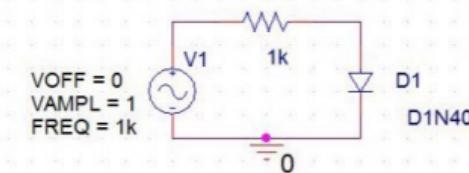
```
** Profile: "SCHEMATIC1-k" [C:\ORCAD_PROJECTS\lab8_3\SCHEMATIC1-k.sim]
Reading and checking circuit
Circuit read in and checked, no errors
Calculating bias point for Transient Analysis
Bias point calculated
Transient Analysis
Transient Analysis finished
Simulation complete
```

Time step = 595.9E-09 Time = 4.000E-03 End = 4.000E-03

Activate Windows
Go to PC settings to activate Windows.

or Help, press F1





Activate Windows
Go to PC settings to activate

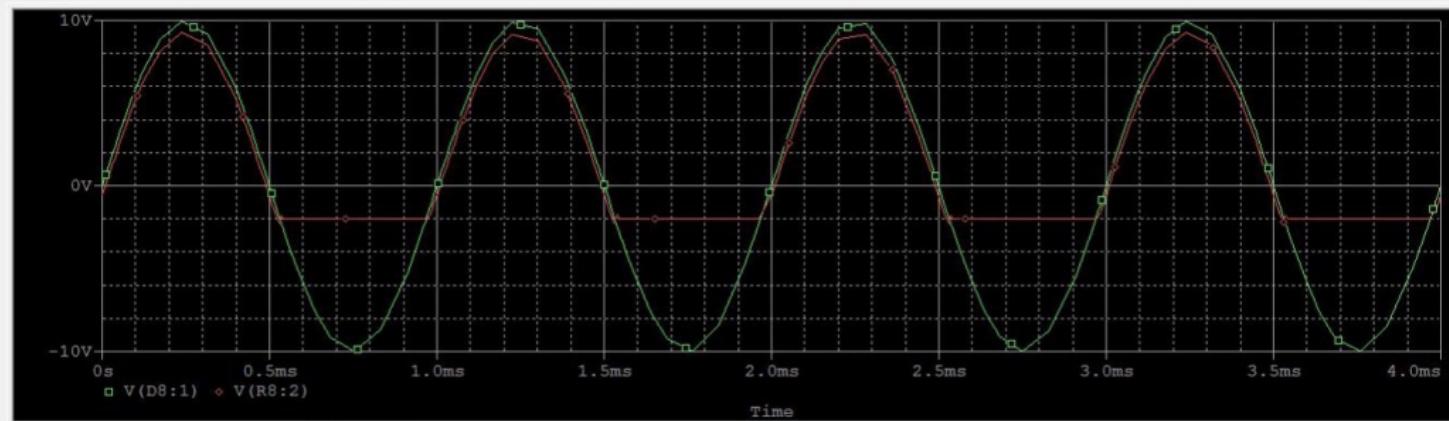
0 items selected

Scale=200% X=4.60 Y=2.80



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(A) lab8-SC... (E) lab8-SC... (A) lab8_2-... (AV) lab8_3-...

```
** Profile: "SCHEMATIC1-k" [C:\ORCAD_PROJECTS\lab8_3-SCHEMATIC1-k.sim]
Reading and checking circuit
Circuit read in and checked, no errors
Calculating bias point for Transient Analysis
Bias point calculated
Transient Analysis
Transient Analysis finished
Simulation complete
```

Time step = 4.603E-06 Time = 4.000E-03 End = 4.000E-03

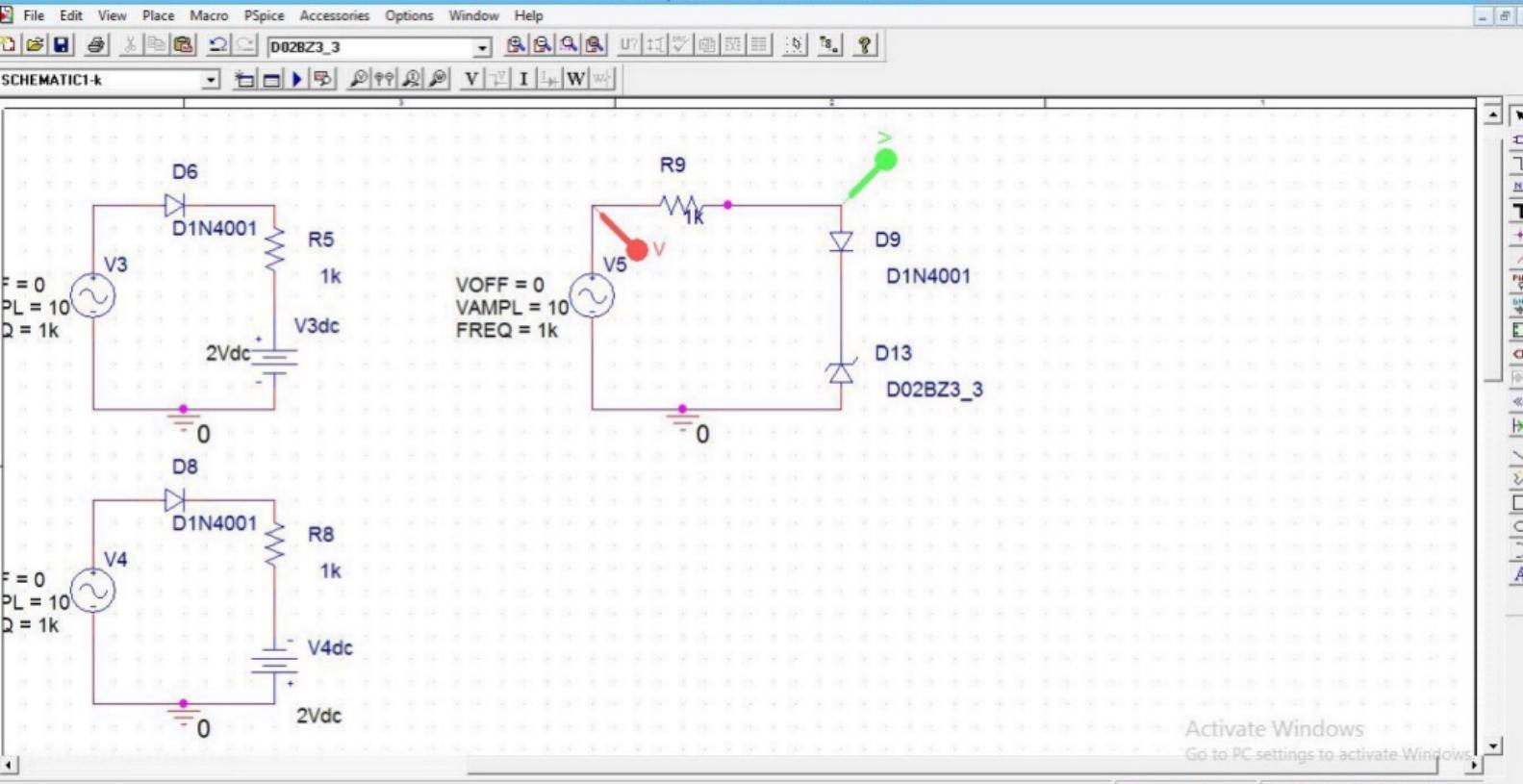
Analysis Watch Devices

Activate Windows
Go to PC settings to activate Windows.

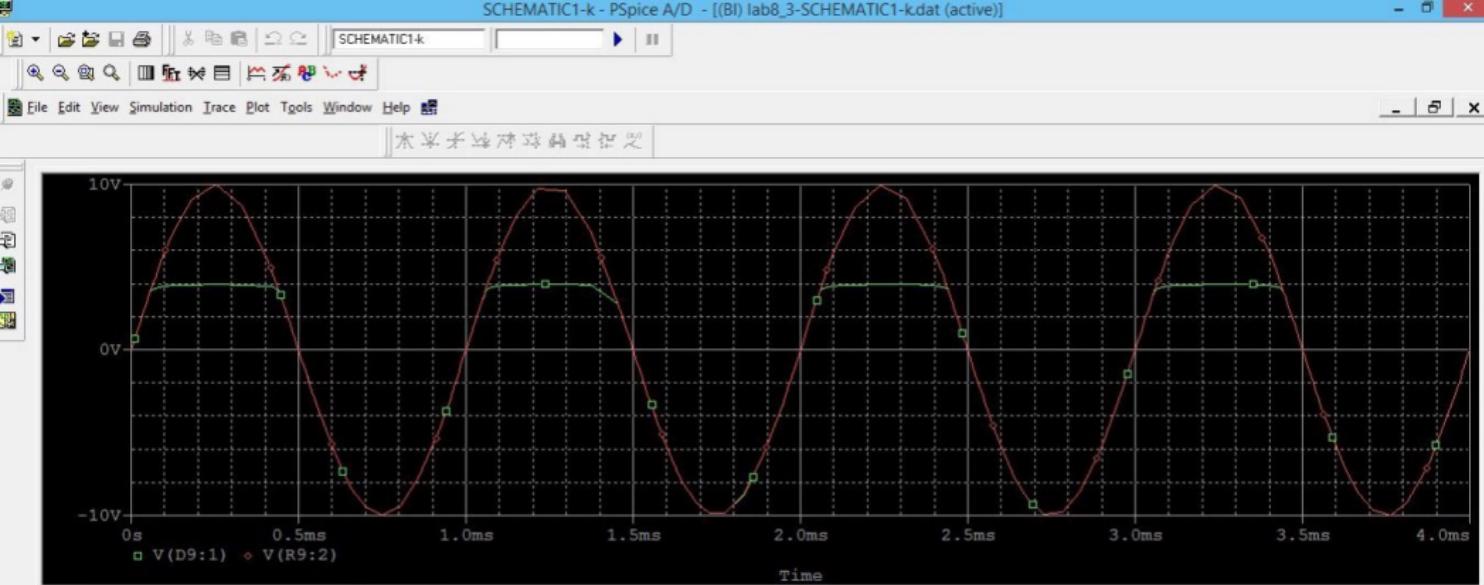
or Help, press F1



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Scanned with CamScanner



(A) lab8-SC... (E) lab8-SC... (A) lab8_2-... (B) lab8_3-S...

** Profile: "SCHEMATIC1-k" [C:\ORCAD_PROJECTS\lab8_3-SCHEMATIC1-k.sim]
Reading and checking circuit
Circuit read in and checked, no errors
Calculating bias point for Transient Analysis
Bias point calculated
Transient Analysis
Transient Analysis finished
Simulation complete

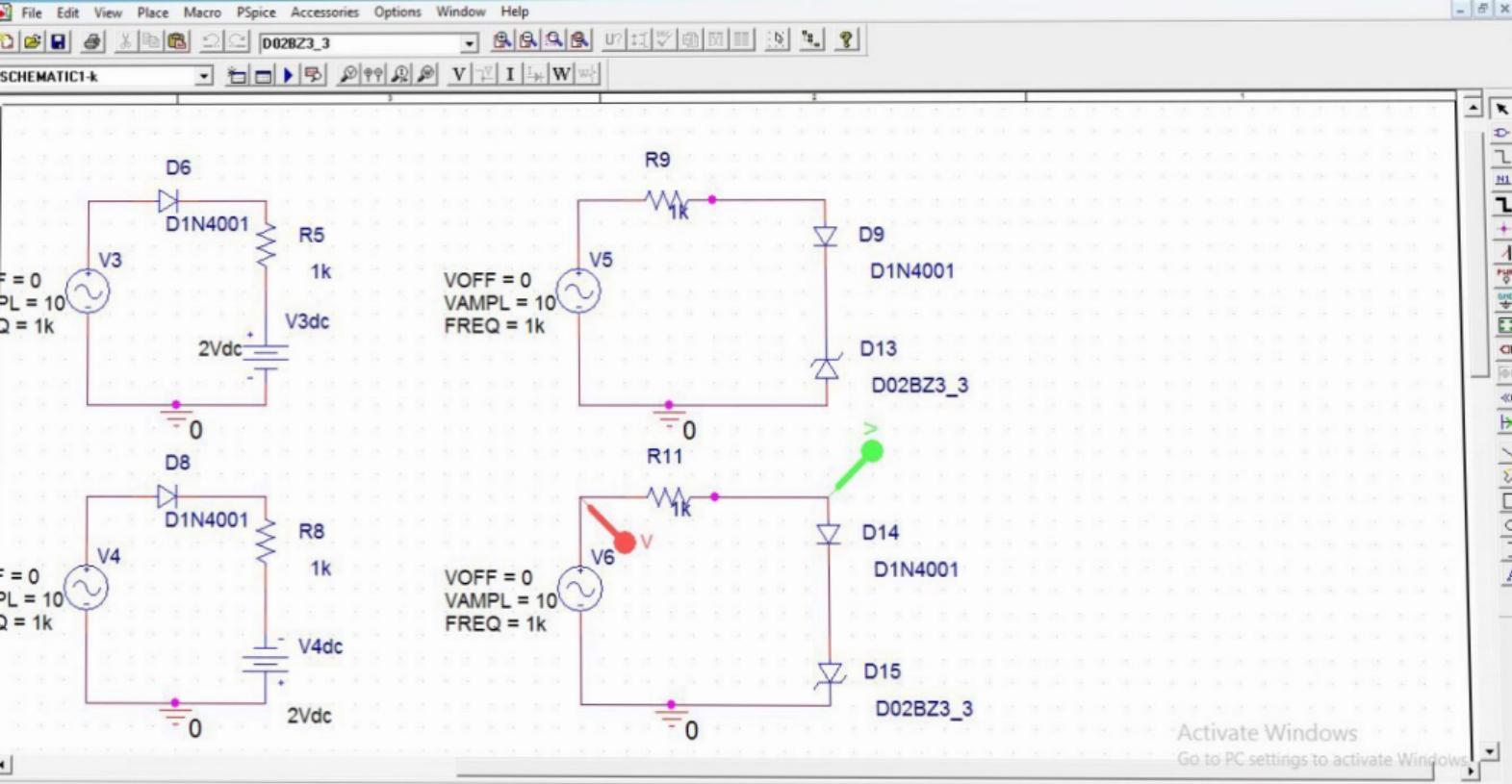
Time step = 5.620E-06 Time = 4.000E-03 End = 4.000E-03
Analysis Watch Devices

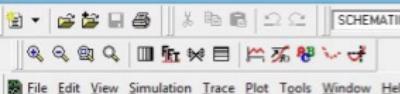
Activate Windows
Go to PC settings to activate Windows.

or Help, press F1



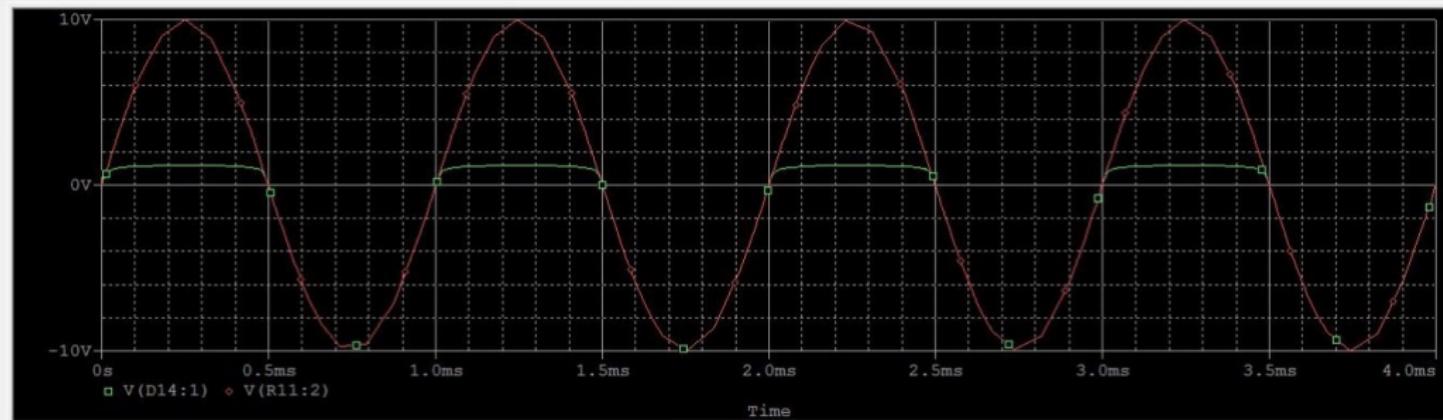
Scanned with CamScanner





File Edit View Simulation Trace Plot Tools Window Help

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(A) lab8-SC... (E) lab8-SC... (A) lab8_2-... (B) lab8_3-...

```
** Profile: "SCHEMATIC1-k" [C:\ORCAD_PROJECTS\lab8_3\SCHEMATIC1-k.sim]
Reading and checking circuit
Circuit read in and checked, no errors
Calculating bias point for Transient Analysis
Bias point calculated
Transient Analysis
Transient Analysis finished
Simulation complete
```

Time step = 2.615E-06 Time = 4.000E-03 End = 4.000E-03

Activate Windows
Go to PC settings to activate Windows.

or Help, press F1

