

Project Assignment 0: SOFTWARE INSTALLATION

1. Python Version : 3.11.5
2. Plot of sin wave :

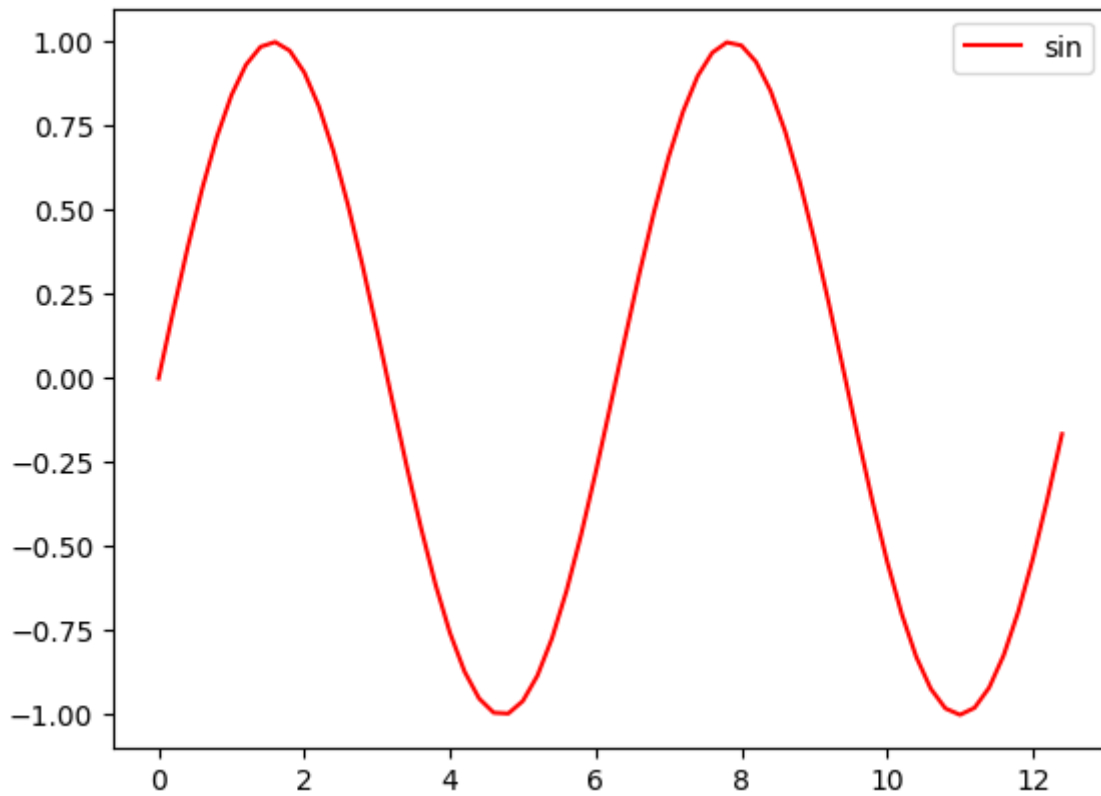


Fig1. Sin Wave

3. Cantera Version :
4. Equilibrium Temperature of methane-air mixture specified is 2287K .
5. Error to correct in code :

```
NameError                                Traceback (most recent call last)
d:\Fall 2023\Mech 652 Dynamics of combustion\P1 - Combustion thermodynamics
attached files Sep 13, 2023 1225 PM\P_0.ipynb Cell 2 line 4
      2 y1 = np.sin(x)
      3 y2 = np.cos(x)
---->  4 plt.plot (x,y1,color= red,label="sin")
      5 #plt.plot (x,y2,color= 'blue',label="cos")
      6 plt.legend()
```

NameError: name 'red' is not defined

6. Plot of Sin and Cosine

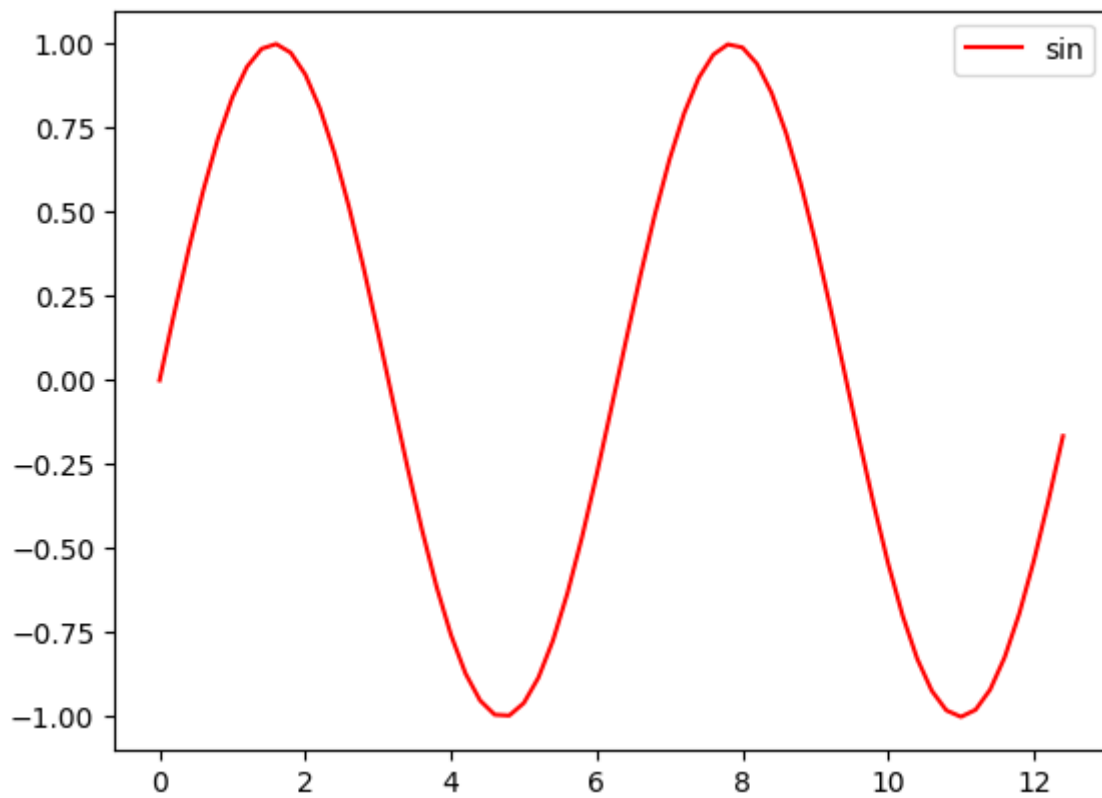


Fig2. Sin & Cosine Wave

7. Command to know possible functions : `dir (my_function)`