```
In [1]: from matplotlib import pyplot as plt
import pandas as pd
import numpy as np
import warnings
warnings.filterwarnings('ignore')
```

Out[2]:

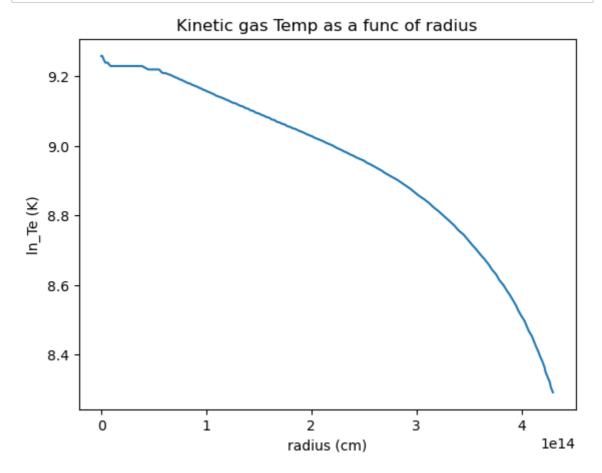
_		#depth	Те	Htot	hden	eden	2H_2/H	НІ	HII	Hel	Н
	0	8.640000e+09	10500.0	4.090000e- 14	100000.0	96400.0	2.780000e- 10	0.137	0.863	0.102	0.8
	1	5.180000e+10	10500.0	4.070000e- 14	100000.0	96000.0	2.760000e- 10	0.136	0.864	0.101	0.8
	2	2.250000e+11	10500.0	4.040000e- 14	100000.0	96000.0	2.760000e- 10	0.136	0.864	0.102	0.8
	3	9.160000e+11	10500.0	3.980000e- 14	100000.0	96000.0	2.770000e- 10	0.135	0.865	0.102	0.8
	4	2.190000e+12	10400.0	3.780000e- 14	100000.0	96600.0	2.670000e- 10	0.128	0.872	0.103	0.8

5 rows × 26 columns

T [2] (S[1] T 1] ((S[1] 1])

In [3]: df['ln_Te'] = np.log(df['Te'])

```
In [4]: plt.plot(df['#depth'], df['ln_Te'])
    plt.xlabel('radius (cm)')
    plt.ylabel('ln_Te (K)')
    plt.title('Kinetic gas Temp as a func of radius')
    plt.show()
```



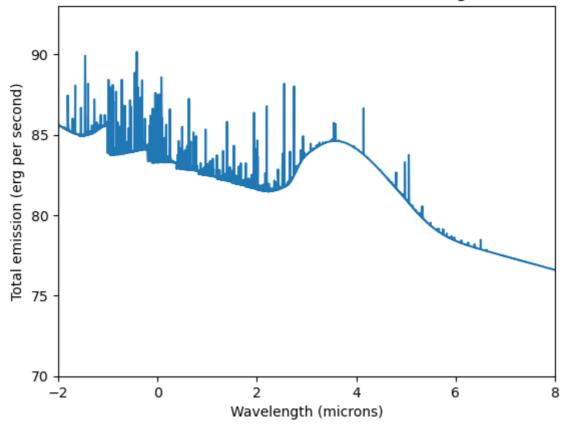
```
In [5]: df2 = pd.read_csv('cloudy_script2_con.csv')
df2
```

Out[5]:

	cont	incident	trans	DiffOut	net trans	reflc	total	re		
0	2.990000e+07	1.710000e+12	0.0	3.110000e+26	3.110000e+26	0.0	3.110000e+26			
1	2.980000e+07	1.730000e+12	0.0	3.140000e+26	3.140000e+26	0.0	3.140000e+26			
2	2.970000e+07	1.750000e+12	0.0	3.180000e+26	3.180000e+26	0.0	3.180000e+26			
3	2.960000e+07	1.760000e+12	0.0	3.210000e+26	3.210000e+26	0.0	3.210000e+26			
4	2.950000e+07	1.780000e+12	0.0	3.250000e+26	3.250000e+26	0.0	3.250000e+26			
9239	1.460000e-08	0.000000e+00	0.0	0.000000e+00	0.000000e+00	0.0	0.000000e+00			
9240	1.420000e-08	0.000000e+00	0.0	0.000000e+00	0.000000e+00	0.0	0.000000e+00			
9241	1.380000e-08	0.000000e+00	0.0	0.000000e+00	0.000000e+00	0.0	0.000000e+00			
9242	1.340000e-08	0.000000e+00	0.0	0.000000e+00	0.000000e+00	0.0	0.000000e+00			
9243	1.300000e-08	0.000000e+00	0.0	0.000000e+00	0.000000e+00	0.0	0.000000e+00			
9244 rows × 12 columns										

4

Total emission as a function of wavelength



```
In [ ]:
```