A 13 KNN (Glass).pdf Open with Google Docs

In [1]:

```
#import dependencies
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
from sklearn.neighbors import KNeighborsClassifi
from sklearn.model_selection import train_test_s
from sklearn.preprocessing import StandardScaler
import seaborn as sns
from sklearn.metrics import classification_repor
from sklearn.model_selection import cross_val_sc
```

In [2]:

```
#load data
df = pd.read_csv('C:/Users/Hp/Downloads/glass.cs
df.head()
```

Out[2]:

	RI	Na	Mg	Al	Si	K	Ca	Ba	Fe
0	1.52101	13.64	4.49	1.10	71.78	0.06	8.75	0.0	
1	1.51761	13.89	3.60	1.36	72.73	0.48	7.83	0.0	0.0
2	1.51618	13.53	3.55	1.54	72.99	0.39	7.78	0.0	0.0
3	1.51766	13.21	3.69	1.29	72.61	0.57	8.22	0.0	0.0
4	1.51742	13.27	3.62	1.24	73.08	0.55	8.07	0.0	0.0

In [3]:

```
df.tail()
```

Out[3]:

	RI	Na	Mg	Al	Si	K	Ca	Ba	Fe
209	1.51623	14.14	0.0	2.88	72.61	0.08	9.18	1.06	0.0
210	1.51685	14.92	0.0	1.99	73.06	0.00	8.40	1.59	0.0
211	1.52065	14.36	0.0	2.02	73.42	0.00	8.44	1.64	0.0
212	1.51651	14.38	0.0	1.94	73.61	0.00	8.48	1.57	0.0
213	1.51711	14.23	0.0	2.08	73.36	0.00	8.62	1.67	0.0