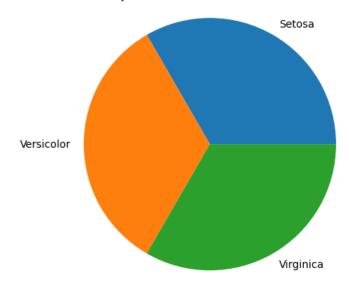
## A) Write a Python program to create a Pie plot to get the frequency of the three species of the Iris data (Use iris.csv)

```
In [26]: import pandas as pd
import matplotlib.pyplot as plt
df=pd.read_csv('iris.csv')
sc=df['variety'].value_counts()
plt.pie(sc,labels=sc.index)
plt.axis('equal')
plt.title('PIE PLOT OF FREQUENTIES OF THE THREE SCIPES OF IRIS DATA')
plt.show()
```

## PIE PLOT OF FREQUENTIES OF THE THREE SCIPES OF IRIS DATA



## B) Write a Python program to view basic statistical details of the data.(Use wineequality-red.csv)

In [29]: import pandas as pd
 df=pd.read\_csv('winequality-red.csv')
 df

Out	[29]	

:		fixed acidity	volatile acidity	citric acid	residual sugar	chlorides	free sulfur dioxide	total sulfur dioxide	density	рН	sulphates	alcohol	quality
	0	7.4	0.700	0.00	1.9	0.076	11.0	34.0	0.99780	3.51	0.56	9.4	5
	1	7.8	0.880	0.00	2.6	0.098	25.0	67.0	0.99680	3.20	0.68	9.8	5
	2	7.8	0.760	0.04	2.3	0.092	15.0	54.0	0.99700	3.26	0.65	9.8	5
	3	11.2	0.280	0.56	1.9	0.075	17.0	60.0	0.99800	3.16	0.58	9.8	6
	4	7.4	0.700	0.00	1.9	0.076	11.0	34.0	0.99780	3.51	0.56	9.4	5
15	94	6.2	0.600	0.08	2.0	0.090	32.0	44.0	0.99490	3.45	0.58	10.5	5
15	595	5.9	0.550	0.10	2.2	0.062	39.0	51.0	0.99512	3.52	0.76	11.2	6
15	96	6.3	0.510	0.13	2.3	0.076	29.0	40.0	0.99574	3.42	0.75	11.0	6
15	597	5.9	0.645	0.12	2.0	0.075	32.0	44.0	0.99547	3.57	0.71	10.2	5
15	98	6.0	0.310	0.47	3.6	0.067	18.0	42.0	0.99549	3.39	0.66	11.0	6

1599 rows × 12 columns

In [33]: df.describe()

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Out[33]:		fixed acidity	volatile acidity	citric acid	residual sugar	chlorides	free sulfur dioxide	total sulfur dioxide	density	
	count	1599.000000	1599.000000	1599.000000	1599.000000	1599.000000	1599.000000	1599.000000	1599.000000	159
	mean	8.319637	0.527821	0.270976	2.538806	0.087467	15.874922	46.467792	0.996747	
	std	1.741096	0.179060	0.194801	1.409928	0.047065	10.460157	32.895324	0.001887	
	min	4.600000	0.120000	0.000000	0.900000	0.012000	1.000000	6.000000	0.990070	
	25%	7.100000	0.390000	0.090000	1.900000	0.070000	7.000000	22.000000	0.995600	
	50%	7.900000	0.520000	0.260000	2.200000 2.600000	0.079000 0.090000	14.000000 21.000000	38.000000 62.000000	0.996750 0.997835	
	75%	9.200000	0.640000	0.420000						
	max	15.900000	1.580000	1.000000	15.500000	0.611000	72.000000	289.000000	1.003690	
Tn [ ].										
In [ ]:										

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