```python
In [1]: import pandas as pd
        import numpy as np
        from scipy import stats
        from scipy.stats import norm
```

```python
In [2]: # Load the dataset
        data=pd.read_csv('Cutlets.csv')
        data.head()
```

Out[2]:

	Unit A	Unit B
0	6.8090	6.7703
1	6.4376	7.5093
2	6.9157	6.7300
3	7.3012	6.7878
4	7.4488	7.1522

```
In [3]: unitA = pd.Series(data.iloc[:,0])
        unitA
```

Out[3]:
```
0     6.8090
1     6.4376
2     6.9157
3     7.3012
4     7.4488
5     7.3871
6     6.8755
7     7.0621
8     6.6840
9     6.8236
10    7.3930
11    7.5169
12    6.9246
13    6.9256
14    6.5797
15    6.8394
16    6.5970
17    7.2705
18    7.2828
19    7.3495
20    6.9438
21    7.1560
22    6.5341
23    7.2854
24    6.9952
25    6.8568
26    7.2163
27    6.6801
28    6.9431
29    7.0852
30    6.7794
31    7.2783
32    7.1561
33    7.3943
34    6.9405
Name: Unit A, dtype: float64
```

```
In [4]: unitB = pd.Series(data.iloc[:,1])
        unitB

Out[4]: 0      6.7703
        1      7.5093
        2      6.7300
        3      6.7878
        4      7.1522
        5      6.8110
        6      7.2212
        7      6.6606
        8      7.2402
        9      7.0503
        10     6.8810
        11     7.4059
        12     6.7652
        13     6.0380
        14     7.1581
        15     7.0240
        16     6.6672
        17     7.4314
        18     7.3070
        19     6.7478
        20     6.8889
        21     7.4220
        22     6.5217
        23     7.1688
        24     6.7594
        25     6.9399
        26     7.0133
        27     6.9182
        28     6.3346
        29     7.5459
        30     7.0992
        31     7.1180
        32     6.6965
        33     6.5780
        34     7.3875
        Name: Unit B, dtype: float64
```

```
In [5]: # 2-sample 2-tail ttest:    stats.ttest_ind(array1,array2)     # ind -> independer
        p_value = stats.ttest_ind(unitA,unitB)
        p_value
```

Out[5]: Ttest_indResult(statistic=0.7228688704678063, pvalue=0.4722394724599501)

```
In [6]: p_value[1]     # 2-tail probability
```

Out[6]: 0.4722394724599501

```
In [7]: # compare p_value with α = 0.05 (At 5% significance level)
```

```
In [ ]:
```