In [2]:
```
import pandas as pd
from scipy import stats
```

In [5]:
```
fabric = pd.read_excel("Fabric data.xlsx")
fabric
```

Out[5]:

	Fabric_length
0	151.2
1	160.3
2	147.5
3	149.2
4	159.2
5	155.6
6	148.1
7	154.8
8	156.8
9	167.5
10	164.5
11	147.9
12	154.1
13	159.4
14	147.5
15	148.2
16	154.2
17	148.1
18	163.1
19	155.2
20	154.6
21	155.4
22	158.2
23	157.6
24	158.4

In [6]:
```
fabric.shape
```

Out[6]:
```
(25, 1)
```

In [8]:
```
fabric.mean()
```

Out[8]:
```
Fabric_length    155.064
dtype: float64
```

In [10]:
```
stats.ttest_1samp(fabric,155.064)
```

Out[10]:
```
Ttest_1sampResult(statistic=array([0.]), pvalue=array([1.]))
```

In [11]:
```
1-stats.t.cdf(0, 25)
```

Out[11]:
```
0.5
```

In [ ]:
```

```