To find the hypothesis testing using to perform T-test

In [ ]:
```
#Name: Shruti .P. Arsode
#Roll no.: 03
#Sec:'A'
```

In [4]:
```
age = [1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,55,45]
```

In [5]:
```
len(age)
```

Out[5]:
```
32
```

In [7]:
```
import numpy as np
age_mean=np.mean(age)
print(age_mean)
```

```
17.65625
```

In [8]:
```
sample_size = 10
age_sample=np.random.choice(age,sample_size)
```

In [9]:
```
print(age_sample)
```

```
[11 22 18 23 45  5 20 21  6  5]
```

In [11]:
```
from scipy.stats import ttest_1samp
```

In [13]:
```
ttest_,p_value=ttest_1samp(age_sample,30)
```

In [14]:
```
print(p_value)
```

```
0.010042165164831255
```

In [15]:
```
if p_value < 0.05:
    print("We are rejecting null hypothesis")
else:
    print("We are accepting null hypothesis")
```

```
We are rejecting null hypothesis
```