Aim: To perform and analysis of T Test parametric Test

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In [6]:
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#Section : B
#Subject : PE-II
T Test A t-test is a type of inferential statistic which is used to determine if there is a significant difference
between the means of two groups which may be related in certain features
In [24]:
In [26]:
len(age)
Out[26]:
30
In [28]:
import numpy as np
age mean = np.mean(age)
print(age mean)
35.3666666666667
In [30]:
type(age)
Out[30]:
list
In [32]:
print (age)
[10, 20, 14, 15, 12, 45, 65, 35, 25, 42, 6, 23, 41, 25, 52, 63, 36, 65, 54, 12, 55, 33,
64, 29, 38, 37, 39, 38, 47, 21]
In [35]:
sample size = (10)
age_sample = np.random.choice(age, sample_size)
In [37]:
age sample
Out[371:
array([21, 36, 38, 42, 21, 65, 10, 39, 65, 20])
In [39]:
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from scipy.stats import ttest 1samp

ttest,p value=ttest 1samp(age sample,30)

In [41]:

In [43]:

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print(p_value)
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0.3577096558453857

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In [51]:
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if p_value < 0.05:
    print("We are Rejecting null hypothesis")
else:
    print("We are Accepting null hypothesis")</pre>
```

We are Accepting null hypothesis