Practical No. 04

Aim : To perform and analysis of Z Test parametric Test

In [3]:

```
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#Section : B
#Subject : PE-II
```

In [4]:

```
import pandas as pd
from scipy import stats
from statsmodels.stats import weightstats as stests
```

In [5]:

```
data = [89,69,57,54,52,35,69,84,51,21,36,57,89,65,44,568,654,745,26,658,41,254,452,63,21
```

In [6]:

```
data
```

Out[6]:

```
[89,
 69,
 57,
 54,
 52,
 35,
 69,
 84,
 51,
 21,
 36,
 57,
 89,
 65,
 44,
 568,
 654,
 745,
 26,
 658,
 41,
 254,
 452,
 63,
 21,
 25,
 45,
 23,
 65,
 111]
```

In [7]:

```
len (data)
```

Out[7]:
30

In [8]:
```
z_test, p_val = stests.ztest(data, x2 = None, value = 160)
print(p_val)
```

0.8821262545565735

In [14]:
```
# taking the threshold value as 0.05 or 5%
if p_val < 0.05:
    print("We can reject the null hypothesis")
else:
    print("We can accept the null hypothesis")
```

We can accept the null hypothesis

In [ ]:
```

```