7_Calculating Z-test

In [11]:
```
import scipy.stats as st
import numpy as np
```

In [19]:
```
# To calculate Z-value (from Z-table)
z_table = st.norm.ppf(1-0.05)
z_table
```

Out[19]: 1.6448536269514722

In [20]:
```
s_x = 90
p_u = 82
p_std = 20
n = 81
```

In [21]:
```
z_cal = (s_x - p_u) / (p_std/np.sqrt(n))
z_cal
```

Out[21]: 3.5999999999999996

In [24]:
```
if z_table < z_cal:
    print("Alternate Hypothesis (Ha) is correct")
else:
    print("Null hypothesis (Ho) is correct")
```

```
Alternate Hypothesis (Ha) is correct
```

In [ ]: