```
In [ ]:   # Name:Khushi Chandrashekhar Satpute
          #Aim: To perform and analysis of Z-test Parametric Test
          #Roll No:43
          #Sec:B
          #Sub:ET-II
```

```
In [3]:   # Python program to implement One Sample Z-Test
          # Importing the required libraries
          import pandas as pd
          from scipy import stats
          from statsmodels.stats import weightstats as stests
          # Creating a dataset
          data = [89, 93, 95, 93, 97, 98, 96, 99, 93, 97,
          110, 104, 119, 105, 104, 110, 110, 112, 115, 114]
          # Performing the z-test
          z_test ,p_val = stests.ztest(data, x2 = None, value = 160)
          print(p_val)
          # 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")
```

```
2.417334226169332e-186
We can reject the null hypothesis
```

```
In [ ]:
```