```python
In [1]:  #Experiment no 7 To Perform Hypothesis Testing using Z test.
```

```python
In [2]:  #Name::Shravani M Karne
         #Roll no.: 39
         #Sec: A
         #Subject:Big Data Analysis (ET 2 Lab)
```

```python
In [3]:  import pandas as pd
         from scipy import stats
         from statsmodels.stats import weightstats as stests
```

```python
In [4]:  data = [89,93,95,93,97,98,96,99,93,97,110,104,119,105,104,110,112,115,114]
```

```python
In [5]:  z_test,p_val = stests.ztest(data, x2 = None, value = 160)
         print(p_val)
```

```
6.660438823978548e-177
```

```python
In [6]:  if p_val < 0.05:
             print("We can reject the null hypothesis")
         else:
             print("We can accept the null hypothesis")
```

```
We can reject the null hypothesis
```

```python
In [ ]:
```

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