**Name:** Saugat Bikram Thapa

**Roll Number**: 80117731

Subject: Statistics II, (Bsc. CSIT III Sem)

Lab QN 1

**Working Expression:**

C.I for Population Mean=Mean ± Z tab\*Standard Error

**Working Procedure:**

Define variables height in variable view → Type, numeric → Label, height of students →measure, scale → Insert data in data view → analyze → Descriptive Statistic → Explore→ Put variables height in dependent list→ Statistics→ Fixed 95% C.I → Continue →OK

**SPSS OUTPUT:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Descriptives** | | | | |
|  | | | Statistic | Std. Error |
| height | Mean | | 63.5645 | 1.21741 |
| 95% Confidence Interval for Mean | Lower Bound | 61.1302 |  |
| Upper Bound | 65.9989 |  |
| 5% Trimmed Mean | | 63.6272 |  |
| Median | | 65.0000 |  |
| Variance | | 91.889 |  |
| Std. Deviation | | 9.58589 |  |
| Minimum | | 48.00 |  |
| Maximum | | 78.00 |  |
| Range | | 30.00 |  |
| Interquartile Range | | 15.75 |  |
| Skewness | | -.082 | .304 |
| Kurtosis | | -1.283 | .599 |

**Conclusion:**

Hence 95% of confidence interval for population mean is 61.1302 to 65.9989.

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Lab QN 2

**Working Expression:**

C.I for Population Mean=Mean ± Z tab\*Standard Error

**Working Procedure:**

Define variables Mbps in variable view → Type, numeric → Label, speed of internet→ measure, scale → Insert data in data view → analyze → Descriptive Statistic → Explore→ Put variables height in dependent list→ Statistics→ Fixed 99% C.I → Continue →OK

**SPSS OUTPUT:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Descriptives** | | | | |
|  | | | Statistic | Std. Error |
| Speed of internet | Mean | | 96.9753 | 1.70085 |
| 99% Confidence Interval for Mean | Lower Bound | 92.4873 |  |
| Upper Bound | 101.4633 |  |
| 5% Trimmed Mean | | 97.3080 |  |
| Median | | 99.0000 |  |
| Variance | | 234.324 |  |
| Std. Deviation | | 15.30766 |  |
| Minimum | | 70.00 |  |
| Maximum | | 120.00 |  |
| Range | | 50.00 |  |
| Interquartile Range | | 24.50 |  |
| Skewness | | -.442 | .267 |
| Kurtosis | | -.926 | .529 |

**Conclusion:**

Hence 99% of confidence interval for population mean is 92.4873 to 101.4633.