**ASSIGNMENT-2**

A)

Mean values comparison for sample and population data.

Chart, bar chart

Description automatically generated

The above bar plot clearly shows that the mean of the sample and population glucose features is almost identical.

Comparison of Highest Glucose Values

Chart, bar chart

Description automatically generated

According to the plot above, the greatest value for the sample is about 175 - 200, while the population value is nearly 200. This sample may be close to matching the population findings, but it cannot be accurate for all samples since the values may also vary when the samples change.

B)  
Comparison of the 98th Percentile of BMI

Chart, bar chart

Description automatically generated

The findings of the bar plot above reveal that the 98th percentile of both the sample and population data does not differ significantly.

C)

Box Plot of Means of Bootstrap Samples and Population

A picture containing chart

Description automatically generated

Box Plot of Standard Deviations of Bootstrap Samples and Population

Text

Description automatically generated with low confidence

Box Plot of 95th Percentiles of Bootstrap Samples and Population

Chart

Description automatically generated with low confidence