**Q1:**

Preprocessing Tasks

1. Cleaning
   1. There are some rows which do not have values for some columns, so I choose to replace those missing values with the mean value of the column.
   2. There is whitespace in some of the ordinal columns, so I choose to remove the whitespace
   3. Some ordinal values have uppercase and lowercase letters, so I choose to normalize them all to uppercase
2. Transformation
   1. Removed outliers using z-score and a threshold of 2
   2. Discretized features C and D
   3. Normalized data using min-max

**Q2:**

I used the pandas, numpy, and scipy python libraries to more easily process the data using the processes outlined in Q1.

**Pie Chart**

A pie chart with different colored circles

Description automatically generated

**Q3:**

**A screenshot of a computer

Description automatically generated**

A screenshot of a computer

Description automatically generated

A screen shot of a computer screen

Description automatically generated

A blue background with white text

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