1.

In Week 2 Python lab we covered Importing modules which allows us to be able to access various modules to perform functions such as being able to assign values to arrays.

In the next section we were able to create Bar charts using the matplotlib module for Data visualization and plotting as well as the Matplotlib module which incorporates Data analysis and manipulation and data frames.

in the third lab for the week we created multiple data frames and subset values to create Line charts, for the modules for this lab I used the pandas as well as the matplotlib for the data visualization and plotting.

2.

|  |  |  |
| --- | --- | --- |
| Class | Number of Survivors | Number of Non-Survivors |
| First | 136 | 80 |
| Second | 87 | 97 |
| Third | 119 | 372 |

3.  
In this visualization the number of Survivors verses Non-Survivors it looked at through a lens to show the number of survivors based on the class of the passengers.

We see in the chart that the number of survivors in First Class had the larges number of survivors and the lowest number of non-survivors. A total of 216 passengers with a 62% survival rate.   
In Second Class there were a total of 184 passengers with about a 47% survival rate.

In Third Class, which is the largest class, there were a total of 491 passengers with about a 24% survival rate.   
In conclusion, the higher the class, the better chance the passengers would have to survive.