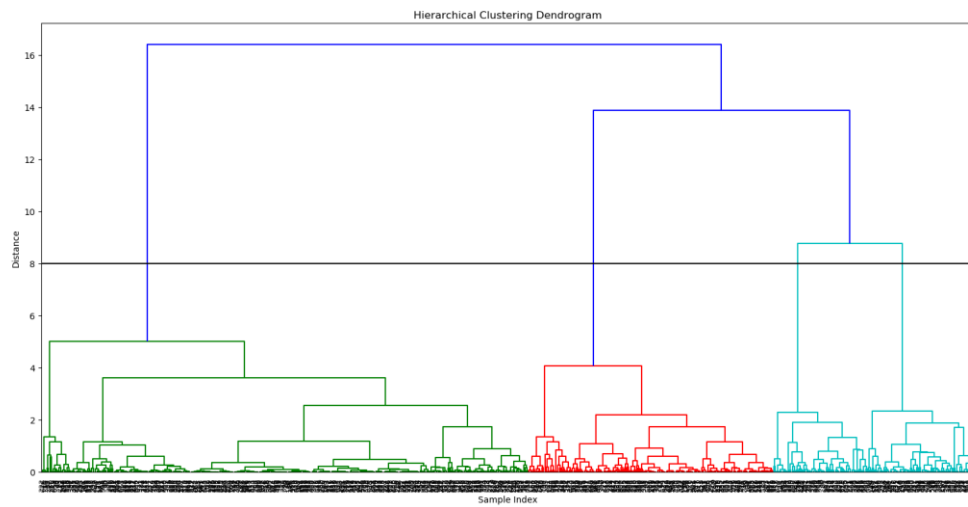
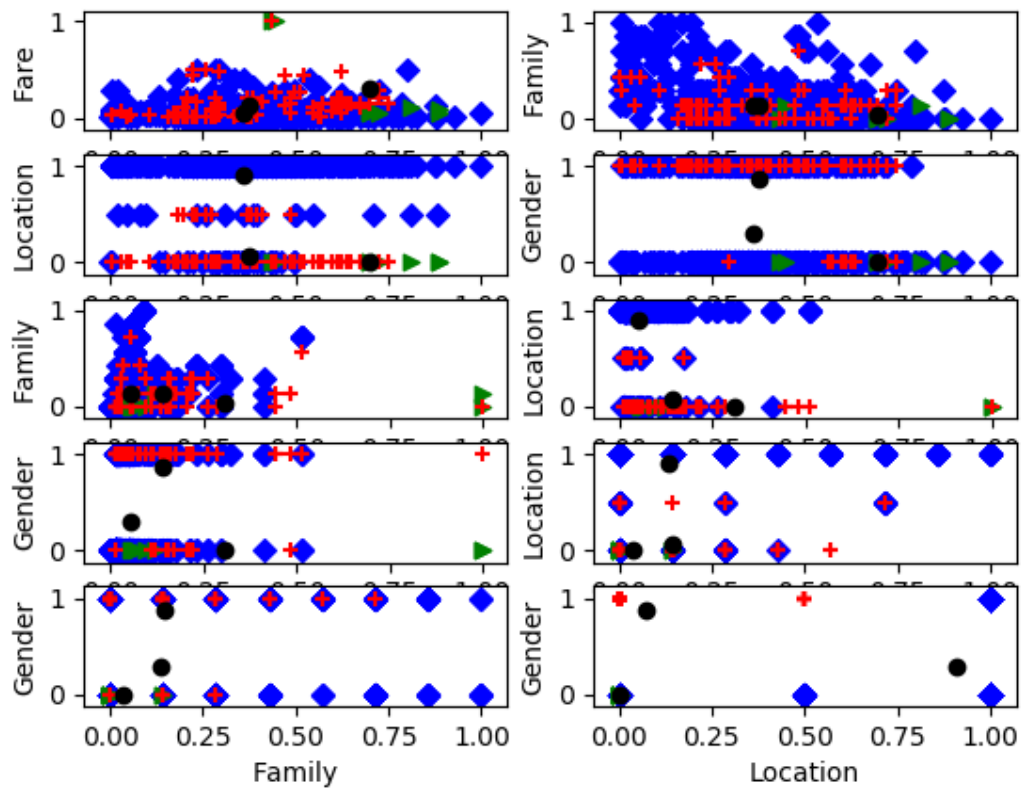
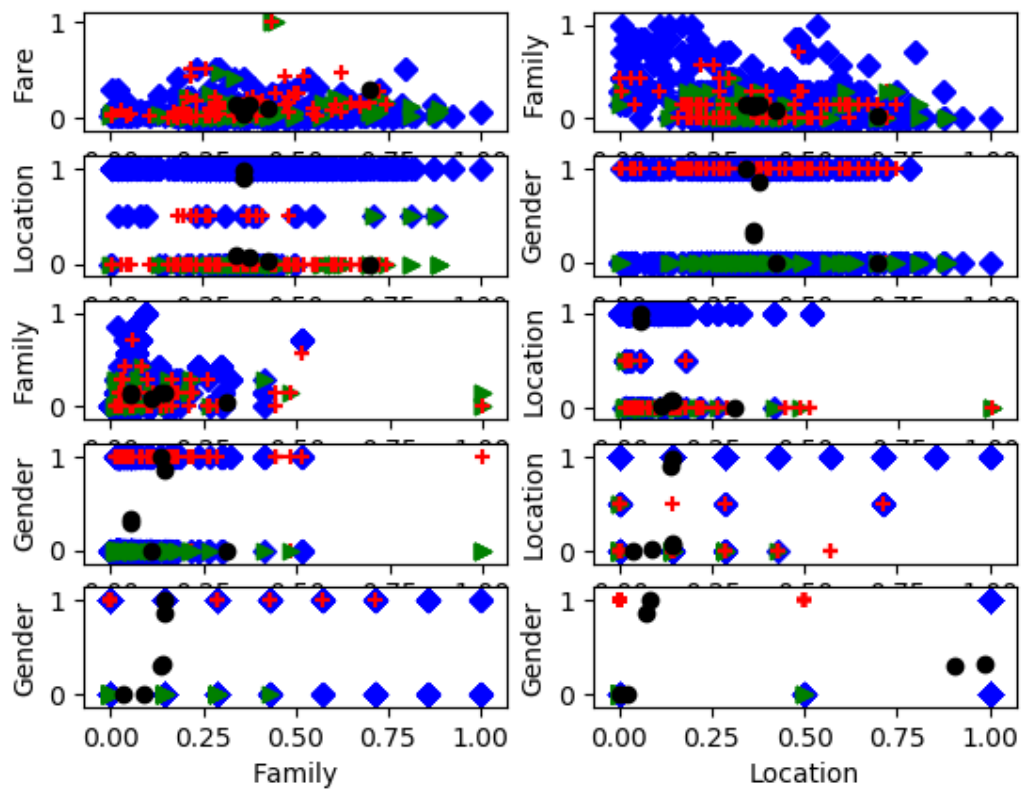


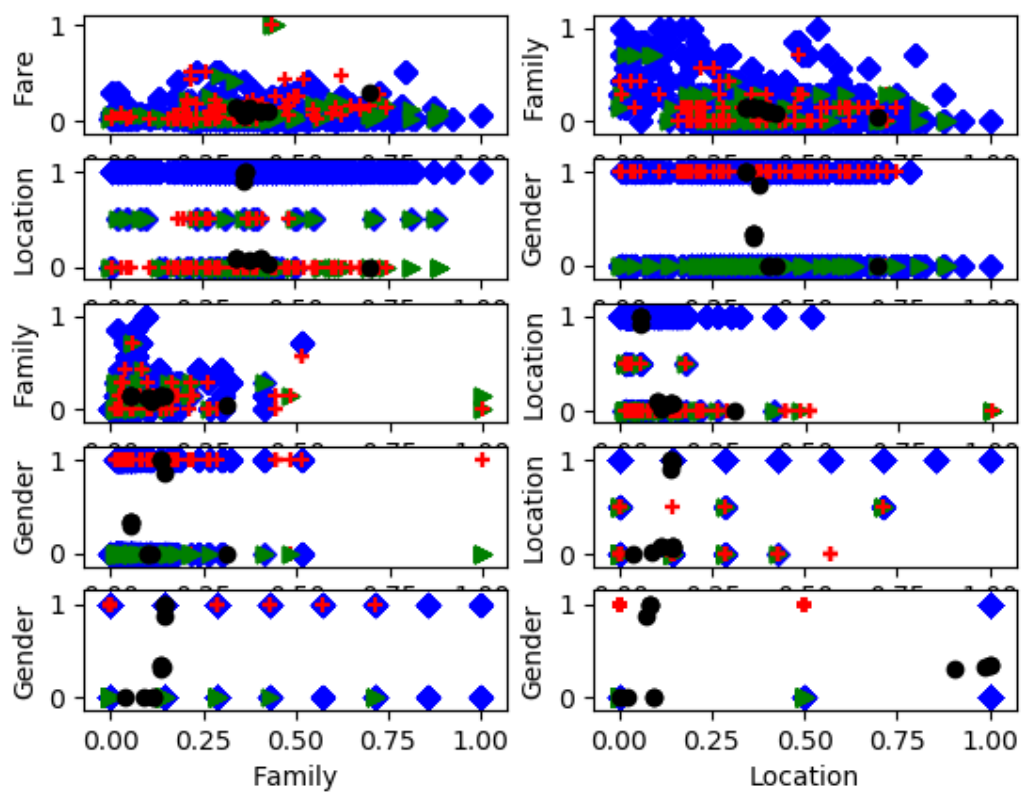
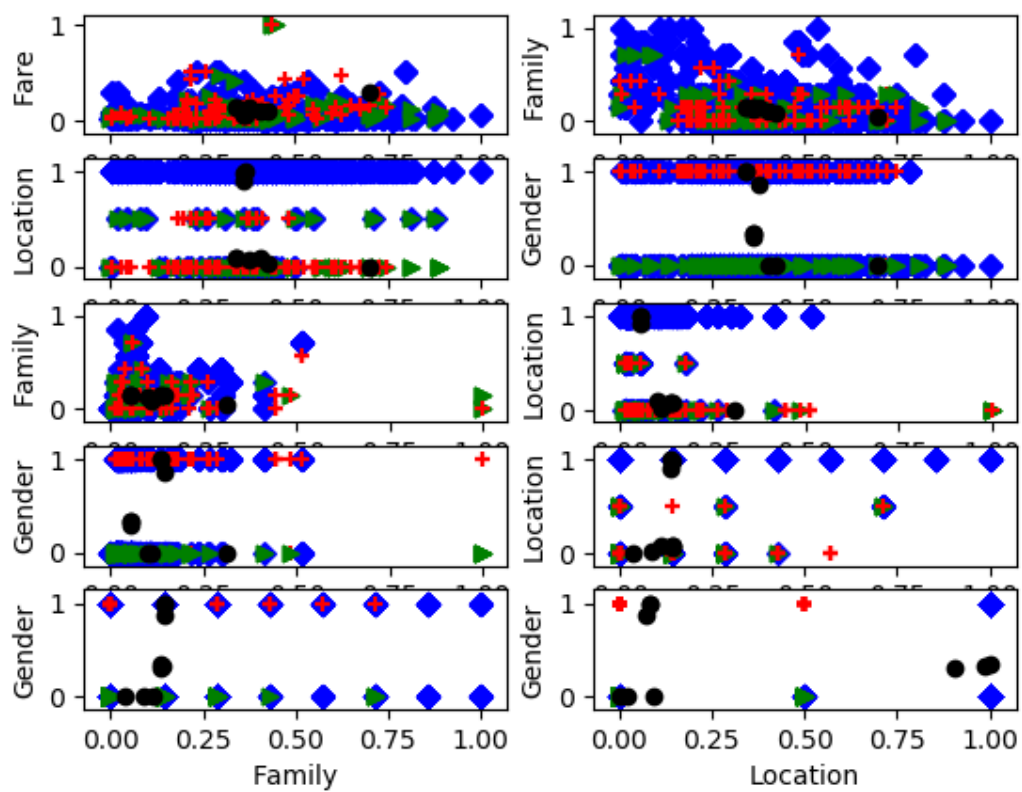
Q2 C. I have taken 8 as the cutting threshold as after that the distances start to increase marginally.

Cutting at 8 results in 3 CLUSTERS. We will now perform 3-means clustering.



3-Means Clustering-





Q2 E. We can conclude that 84% of the people in cluster 3 survived whereas the others are have 36 and 29 percent survivors respectively.

```
36.2815884477 survived in cluster 1  
29.4117647059 survived in cluster 2  
84.9315068493 survived in cluster 3
```

The above plots could be used to check feature vs feature scatters.