**Analysis for Part 3**

After working on the Perth weather data and the emergency department visits, below is the brief analysis:

1. For comparing the three hospitals with respect to ED attendances, we have drawn a box plot that represents different hospitals and their attendances. On looking at the box chart, we can say that it represents the attendance for the 365 days for all the three hospitals. The median for all the three hospital differs and since the median thickness for all the three hospitals seem to be different we can say that data may be somewhat skewed. There may be some outliers for Princess Margaret hospital.
2. We have plotted a qq plot for temperature and attendance through which we can check if any of the variables is normally distributed. On observing the plot, we can see that attendance variable for each of the hospital. Attendance for all the distribution of hospitals tends to be normally distributed meaning it has symmetric distribution whereas temperature variable is not having a proper normal distribution, but still it is somewhat positively skewed and has fat tails.
3. We have used the correlation matrix and the Pearson correlation to show the relation between the weather and the ED demands. Since the correlation matrix shows that the attendance and the weather are not correlated to each other and Pearson also highlights the same facts meaning they have a value of 0. Attendance is correlated with itself and the weather is correlated with itself meaning they always have a value as 1.