**Statistics for Decision Making – ABADS\_B11 – Shubham Gupta**

1. For the suburb Altona, it is postulated that a typical property sells for $800,000. Use the data at hand to test this assumption. Is the typical property price really $800,000 or has it increased? Use a significance level of 5%.

* Since P value is less than significance value, we do not have enough evidence to conclude that the typical property price really has increased or it is $800,000.

1. For the year 2016, is there any difference in prices of properties sold in the summer months vs winter months? Consider months from October till March as winter months and rest as summer months. Use a significance level of 5%.

* The p value is significantly less than significance level hence we can conclude that there is a statistically significant difference in property prices between the summer and winter months in 2016.

1. For the suburb of Abbotsford, what is the probability that out of 10 properties sold, 3 will not have car parking? Use the column car in the dataset. Round off your answer to 3 decimal places.

* The probability that out of 10 properties sold, 3 will not have car parking is 0.26.

1. In the suburb Abbotsford, what are the chances of finding a property with 3 rooms? Round your answer to 3 decimal places.

* The chances of finding a property with 3 rooms is 0.357.

1. 5. In the suburb Abbotsford, what are the chances of finding a property with 2 bathrooms? Round your answer to 3 decimal places.

* The chances of finding a property with 2 bathrooms is 0.339.