**IT2120 - Probability and Statistic**

**Lab Sheet 10**

Exercise

i)

Null hypothesis (H₀) - Customers choose all four snack types (A, B, C, D) with equal

probability, (pA ​=pB​=pC​=pD​=0.25)

Alternative hypothesis (H₁) - At least one snack type has a different probability

ii)

A close up of numbers

Description automatically generated

A screenshot of a computer

Description automatically generated

A screenshot of a computer code

Description automatically generated

A screenshot of a computer code

Description automatically generated

iii)

If p-value < 0.05 - reject H₀

If p-value ≥ 0.05 - don’t reject H₀

P values is 0.08966 greater than 0.05 , so doesn’t reject H0, there we can decide that at east one snack type has a different probability