**IT2120- Probability and Statistics**

**Lab Sheet 10**

IT24102682

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01.

i.

A screenshot of a computer program

AI-generated content may be incorrect.

ii.

Consider 5% level of significance for the test.

Rejection Region : If the p value for the test is less than 0.05.

Reject the null hypothesis at 5% level of significance.

P value for the test got as 0.8966.

Coclusion : Since the p (0.8966) is greater than 0.05,do not reject null hypothesis at 5%

Level of significance.therefore we can conclude that probability that customer arriving on each day will be same which is 0.2

02.

i.

A screenshot of a computer

AI-generated content may be incorrect.

ii.

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AI-generated content may be incorrect.

Consider 5% level of significance for the test.

Rejection Region : If the p value for the test is less than 0.05.

Reject the null hypothesis at 5% level of significance.

P value for the test got as 2.2e-16.

Coclusion : Since the p (2.2e-16) is less than 0.05, reject null hypothesis at 5%

Level of significance.therefore we can conclude that probability a significant association between the different house tasks and their distribution in the couple

Exercise

01.

i.

Null Hypothesis (H₀): Customers choose each snack type (A, B, C, D) with equal probability.

Alternative Hypothesis (H₁): Customers do not choose each snack type with equal probability

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Level of significance.therefore we can conclude that probability that he data supports the claim that customers choose the four snack types with equal probability.

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AI-generated content may be incorrect.

iii.

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