Sri Lanka Institute of Information

Technology



Lab Submission

Lab sheet No 10

**IT24100696**

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**Probability and Statistics - IT2120**

B.Sc. (Hons) in Information Technology

1. Null Hypothesis

Customers choose all snack types (A,B,C, D)with equal probability.

pA​=pB​=pC​=pD​=0.25

Alternative Hypothesis

Customers **do not** choose all snack types with equal probability.

A screenshot of a computer program

AI-generated content may be incorrect.**2.**

A screenshot of a computer program

AI-generated content may be incorrect.

3. The p-value is not less than 0.05, we do not reject the null hypothesis. There is **not enough statistical evidence** to reject the vending machine owner's claim that customers choose the four snack types with equal probability.