**IT24101714**

**LAB 10 – PS**

1)

i.

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ii.

Based on the test, the shop owner's claim is likely correct. The number of customers visiting each day is essentially the same. The minor differences observed are just due to random chance, not a meaningful pattern.

2)

i.

A screenshot of a computer

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ii.

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Description automatically generated

EXERCISE

01.

i.

* Null Hypothesis (H0​) - The customers choose the four snack types with equal probability.
* Alternative Hypothesis (H1​) - At least one of the snack type probabilities is not 0.25. In other words, the snack types are not chosen with equal probability.

ii.

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iii.

The owner's claim that all snacks are chosen equally is likely correct. The differences in sales for each snack are small enough to be due to random chance. We don't have enough evidence to say that customers prefer one snack over the others.