Sri Lanka Institute of Information

Technology

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Lab Submission

10

**IT24101355**

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**Probability and Statistics | IT2120**

B.Sc. (Hons) in Information Technology

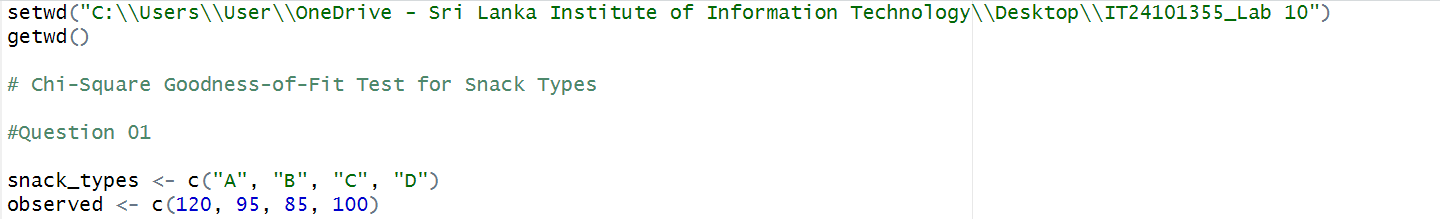
**Exercise**

1. A vending machine owner claims that customers choose the four snack types (A, B,

C, D) with equal probability. To test this claim, a researcher records the number

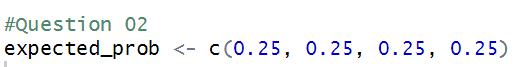
of purchases for each snack type during one week and results are given below.

i. State the null and alternative hypotheses for the test.



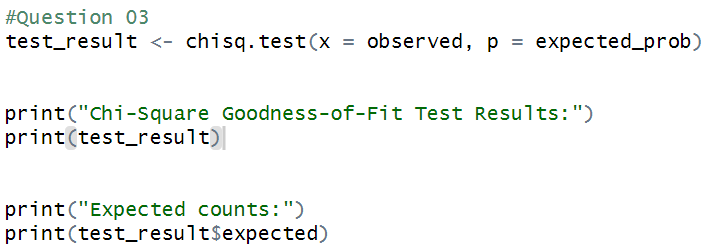
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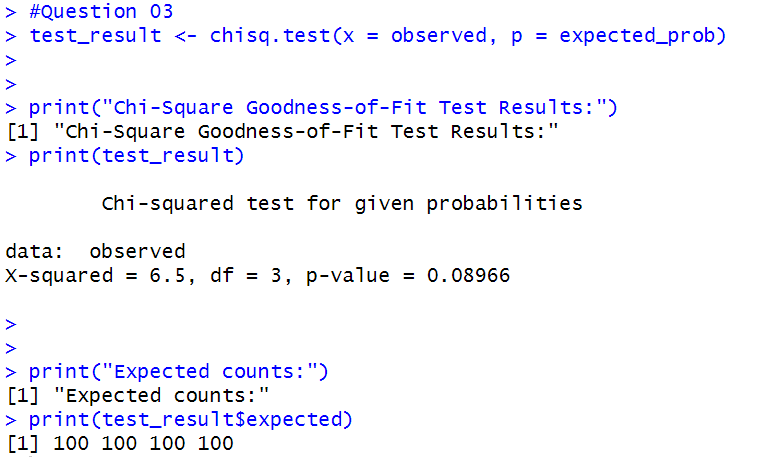
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ii. Perform a suitable chi-squared test to test the null hypothesis.



iii. Give your conclusions based on the results.





Final Data

