PS Lab 10 - IT24100356

```
RStudio
→ Run | → ↑ ↓ | → Source → =
   1 setwd("//Users//poornarajapakshe//Documents//R")
   3 # HO: All snack types are chosen with equal probability.
   4 # H1: At least one snack type is chosen with a different probability.
   6 observed <- c(120, 95, 85, 100)
   9 prob <- c(0.25, 0.25, 0.25, 0.25)
  10
  11 test_result <- chisq.test(x = observed, p = prob)</pre>
  12
  14
  15 # At \alpha = 0.05:
  16 # p-value ≈ 0.089 > 0.05 → Fail to reject H0
  17 # Conclusion:
  18 #
        There is no significant difference among the snack type choices.
  19 # Customers appear to choose snacks equally.
 13:1 (Top Level) $
                                                                                R Script $
 Console Terminal × Background Jobs ×
                                                                                  > setwd("//Users//poornarajapakshe//Documents//R")
 > observed <- c(120, 95, 85, 100)
 > prob <- c(0.25, 0.25, 0.25, 0.25)
 > test_result <- chisq.test(x = observed, p = prob)</pre>
 > print(test_result)
       Chi-squared test for given probabilities
 data: observed
 X-squared = 6.5, df = 3, p-value = 0.08966
 > |
```