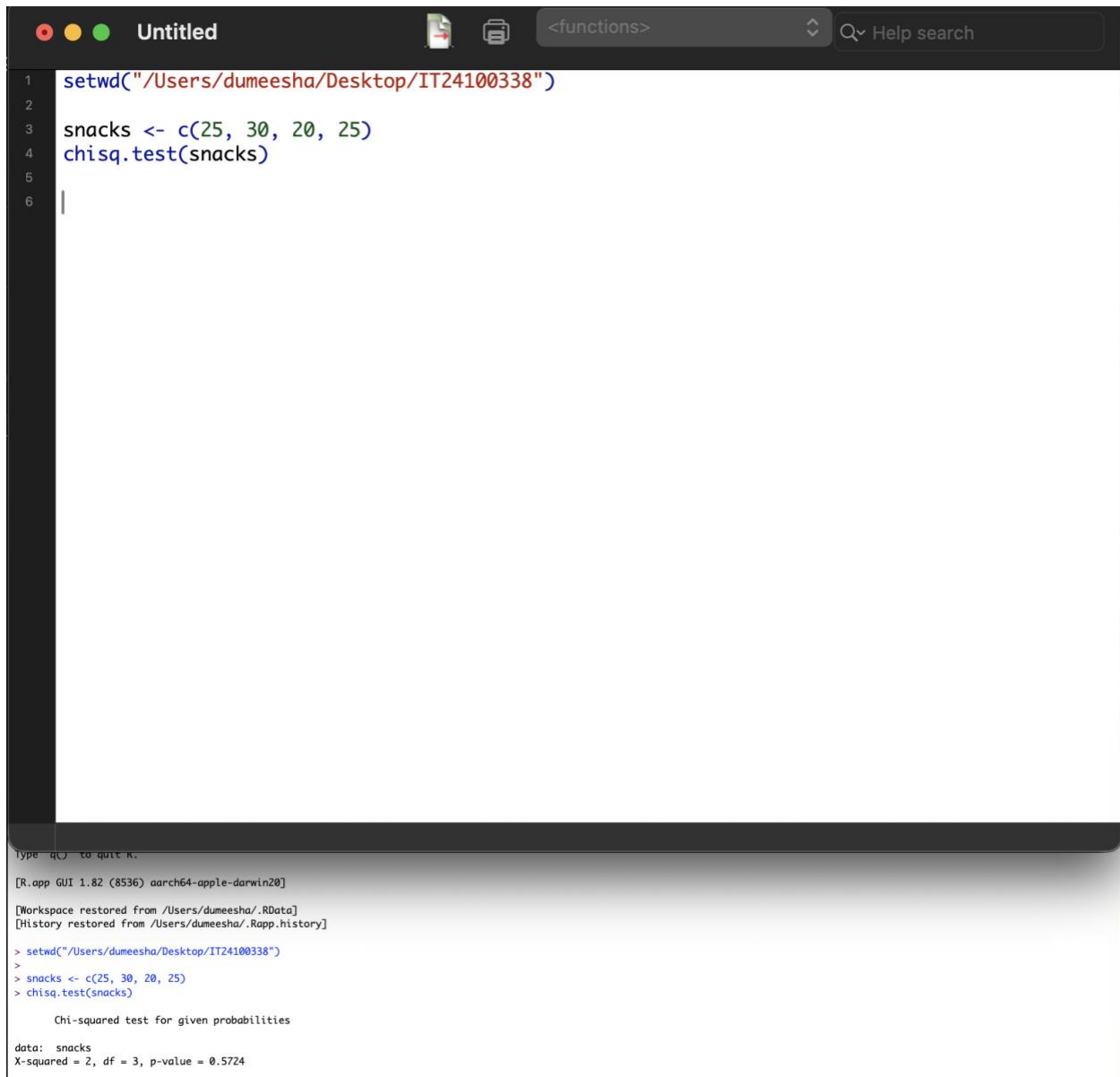


## Exercise

### I. Hypotheses

- **H<sub>0</sub>**: All snack types are equally chosen.
- **H<sub>1</sub>**: Snack choices are not equally distributed.

### II.



```
1 setwd("/Users/dumeesha/Desktop/IT24100338")
2
3 snacks <- c(25, 30, 20, 25)
4 chisq.test(snacks)
5
6
```

Type "q()" to quit R.

[R.app GUI 1.82 (8536) aarch64-apple-darwin20]

[Workspace restored from /Users/dumeesha/.RData]

[History restored from /Users/dumeesha/.Rapp.history]

```
> setwd("/Users/dumeesha/Desktop/IT24100338")
>
> snacks <- c(25, 30, 20, 25)
> chisq.test(snacks)
```

Chi-squared test for given probabilities

data: snacks

X-squared = 2, df = 3, p-value = 0.5724

III.

Since **p-value** > **0.05**, we **fail to reject H<sub>0</sub>**.

**Conclusion:** There is **no significant difference** in snack choice frequencies — the vending machine owner's claim is supported.