IT24100192   PS LAB 10

```r
setwd("C:\\Users\\Kaveesha Induwara\\Desktop\\PSLAB10")

# Vending Machine Goodness-of-Fit Test


observed <- c(156, 14, 2, 4)

expected <- rep(1/4, 4)


chisq.test(observed, p = expected)


cat("Observed counts:", observed, "\n")
cat("Expected counts (equal probability):", sum(observed) * expected, "\n")
```

```
R 4.5.1 · C:/Users/Kaveesha Induwara/Desktop/PSLAB10/
> setwd("C:\\Users\\Kaveesha Induwara\\Desktop\\PSLAB10")
> # Vending Machine Goodness-of-Fit Test
> observed <- c(156, 14, 2, 4)
> expected <- rep(1/4, 4)
> chisq.test(observed, p = expected)

        Chi-squared test for given probabilities

data:  observed
X-squared = 382, df = 3, p-value < 2.2e-16

> cat("Observed counts:", observed, "\n")
Observed counts: 156 14 2 4
> cat("Expected counts (equal probability):", sum(observed) * expected, "\n")
Expected counts (equal probability): 44 44 44 44
>
```