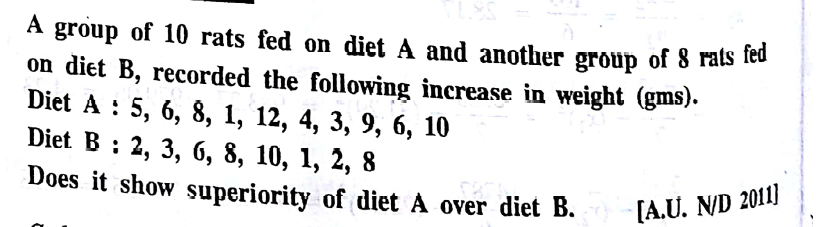
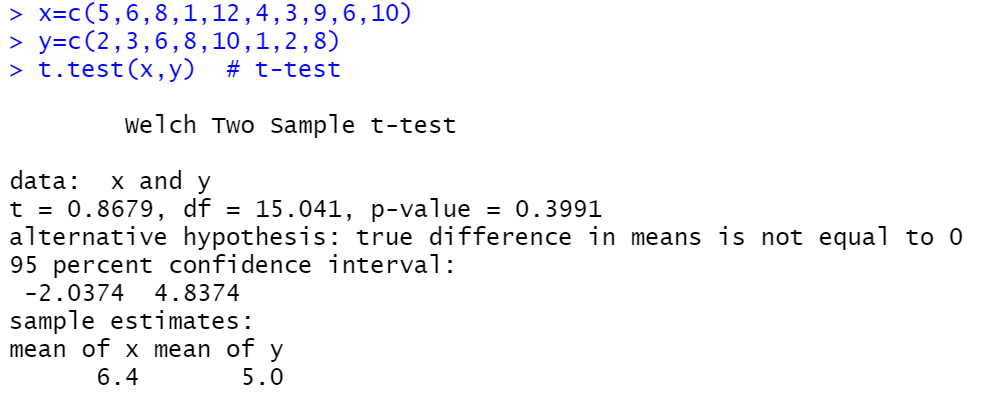
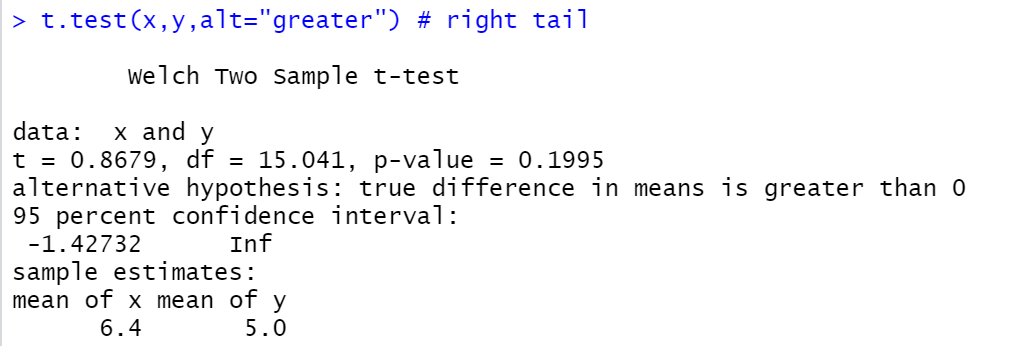
**t-test**



H0 : x1bar = x2bar  
H1 : x1bar > x2bar (Right tailed test)

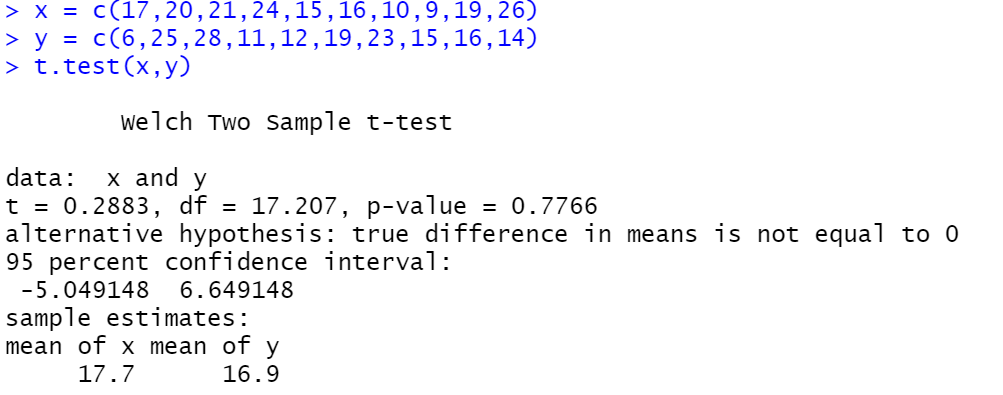
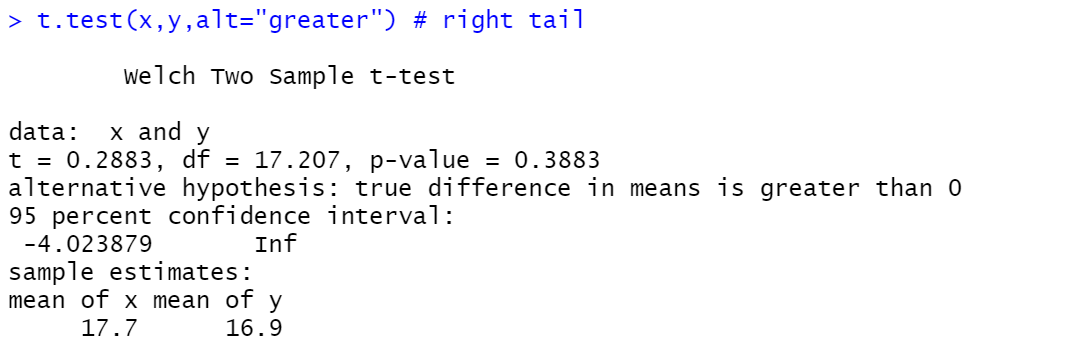
  




alpha 🡪 0.05  
p\_value 🡪 0.1995

p\_value>alpha, So H0 is accepted.

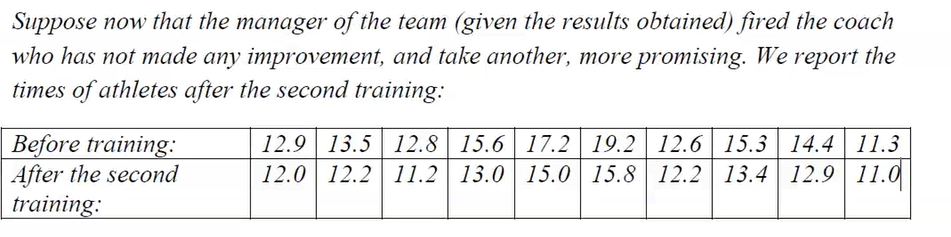
2)

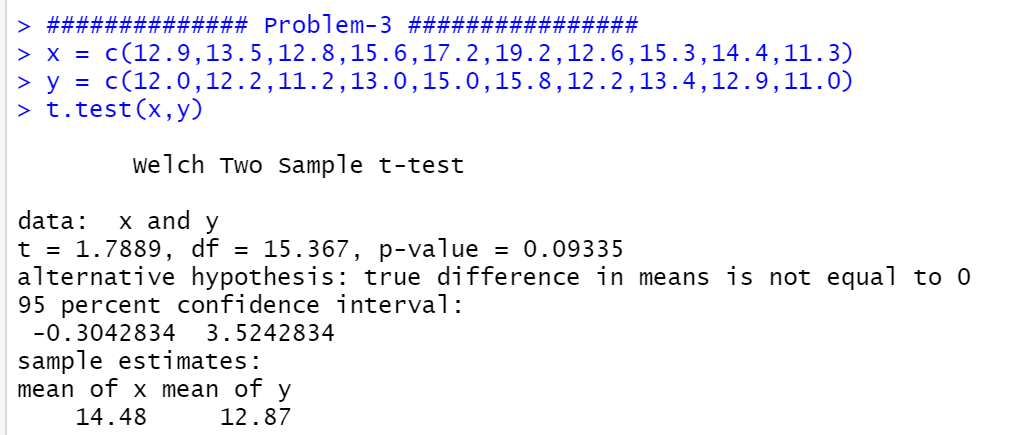
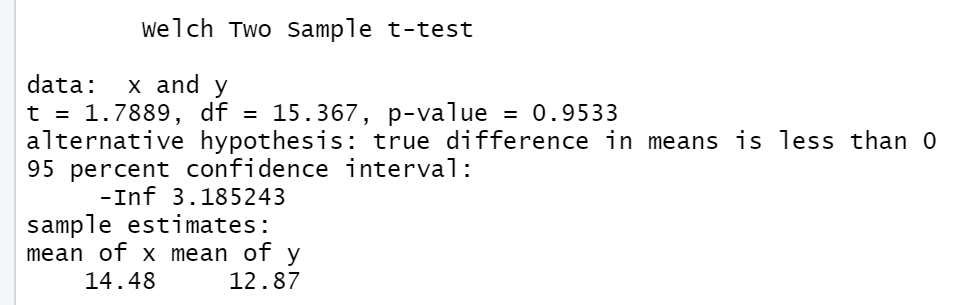


alpha 🡪 0.05  
p\_value 🡪 0.3883

p\_value>alpha, So H0 is accepted.

3)

H0 : x1bar = x2bar  
H1 : x1bar < x2bar (Left tailed test)

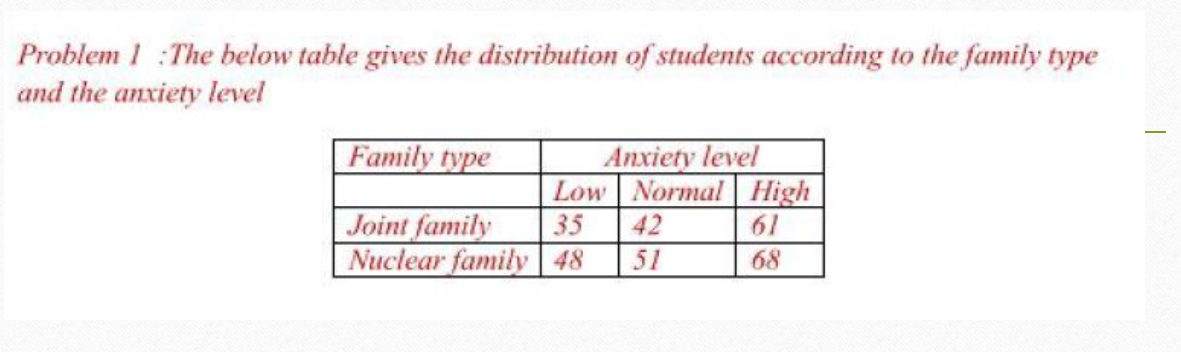
  




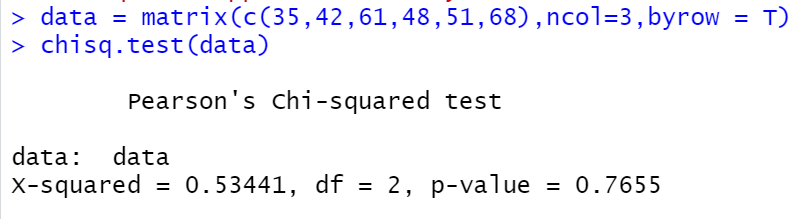
alpha 🡪 0.05  
p\_value 🡪 0.9533

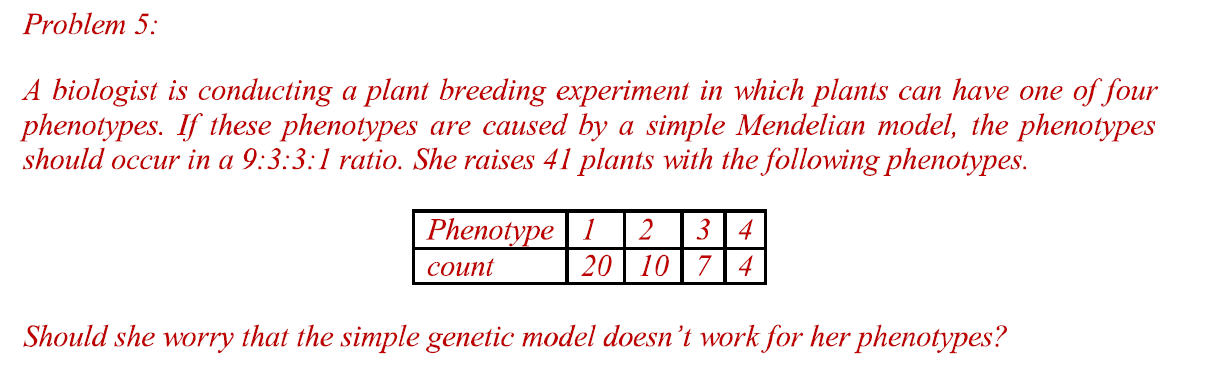
p\_value>alpha, So H0 is accepted.

**Chi-Square test**

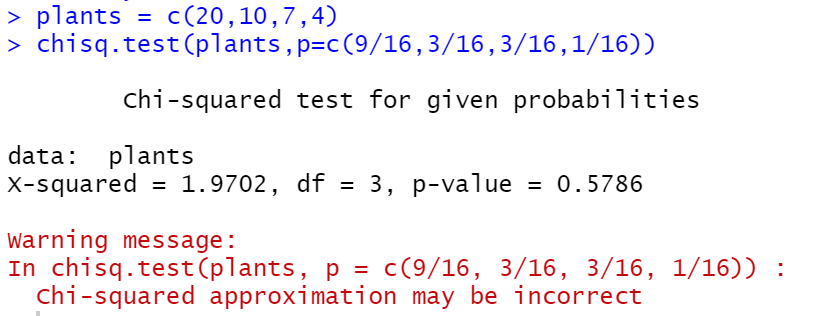




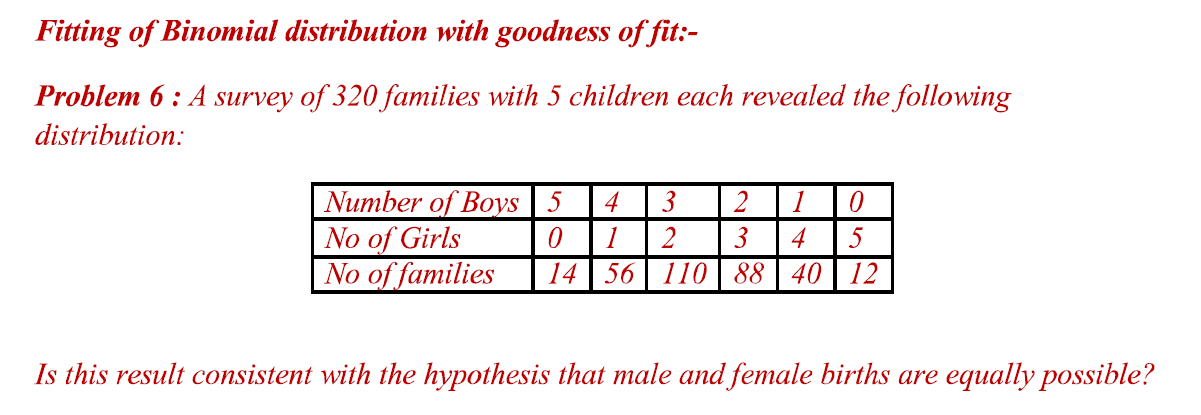








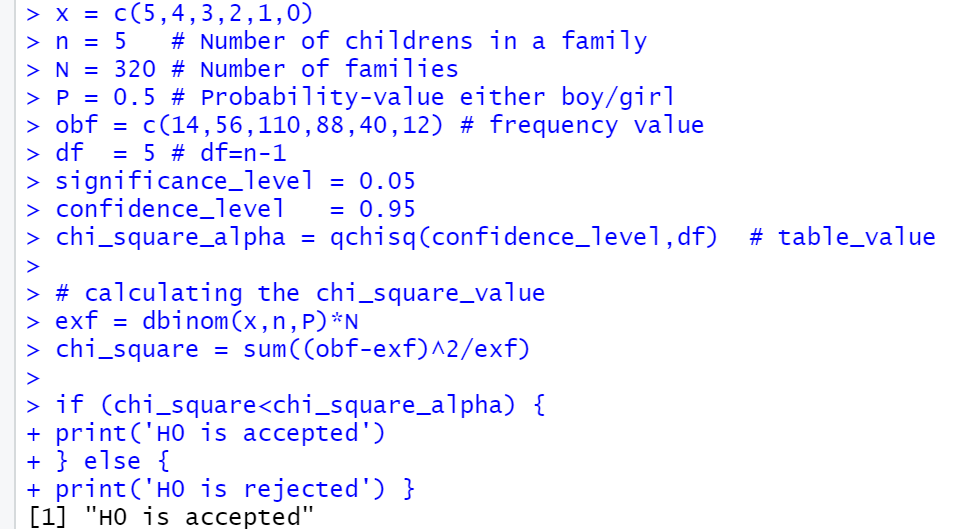
**Binominal Distribution as goodness of fit**





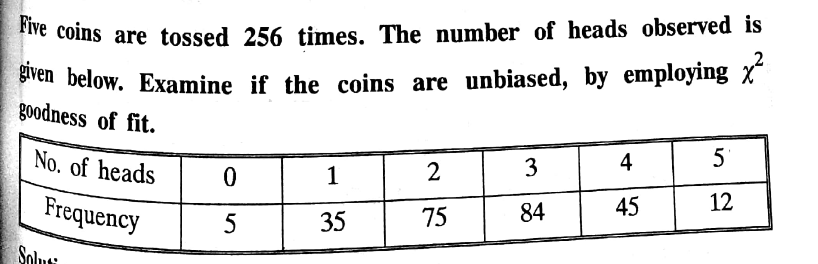
H0 : Binomial distribution is a good fit  
H1 : Binomial distribution is not a good fit

Alpha 🡪 0.05   
df = n-1 🡪 5-1 🡪 4

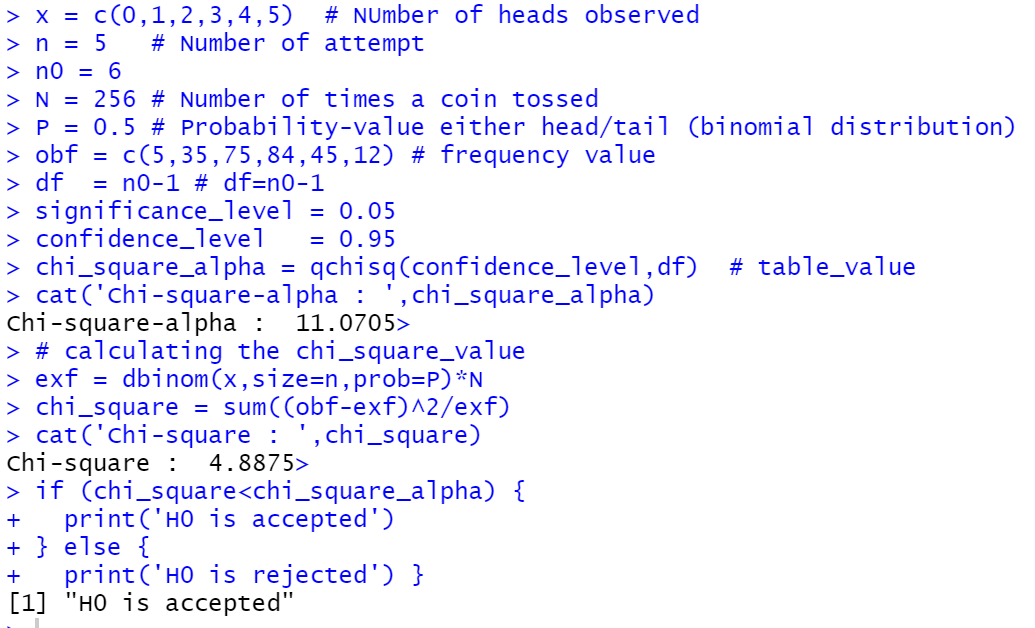


There fore Binominal distribution is a good fit

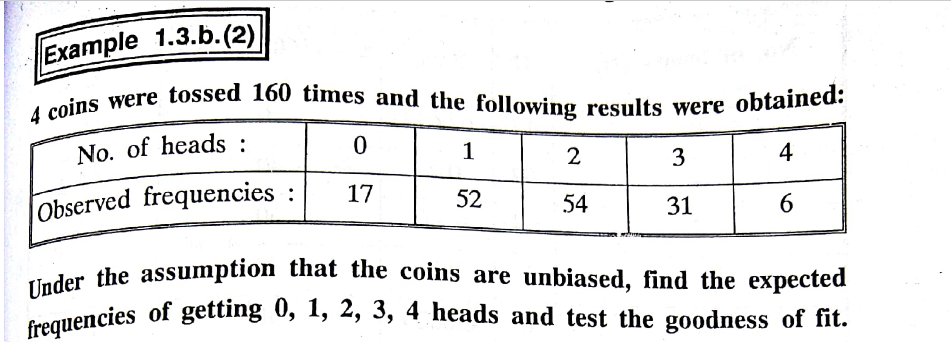
Problem-7)

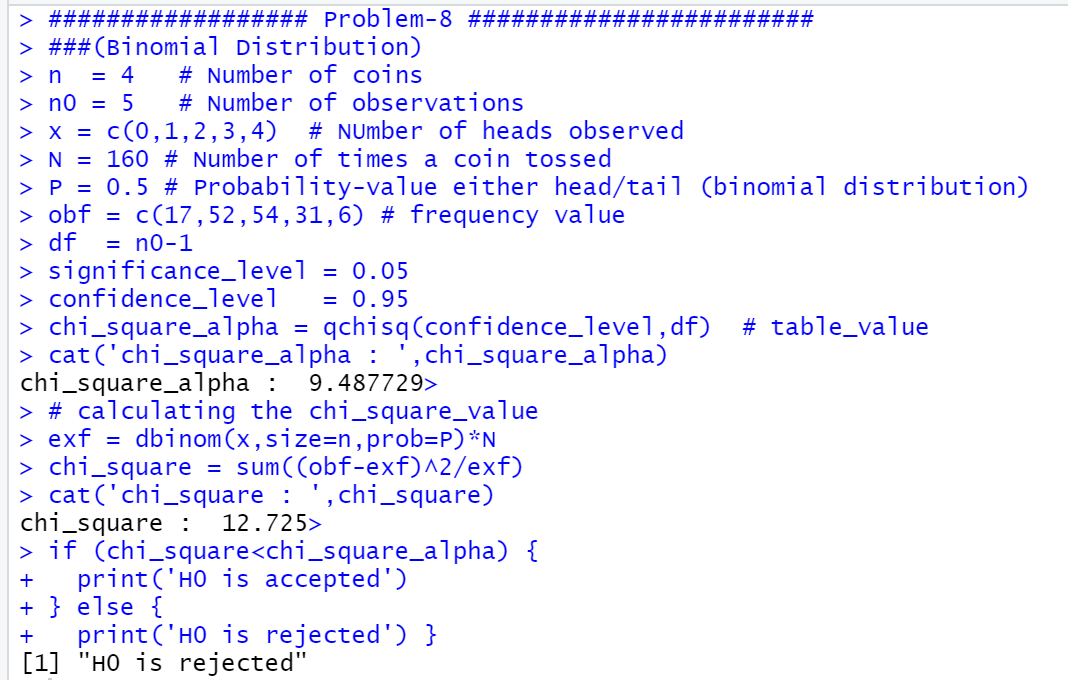


Five\_coins 🡪 (n=5)  
observation 🡪 (no=6)  
df = n0-1 🡪 (6-1) 🡪 5



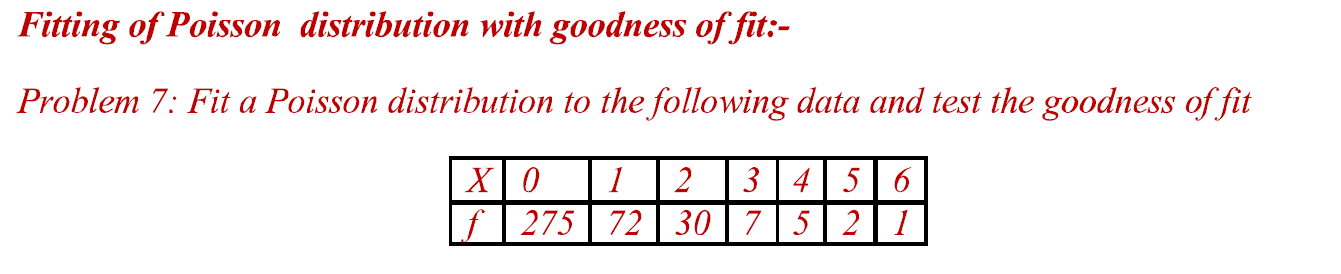
Problem-8)

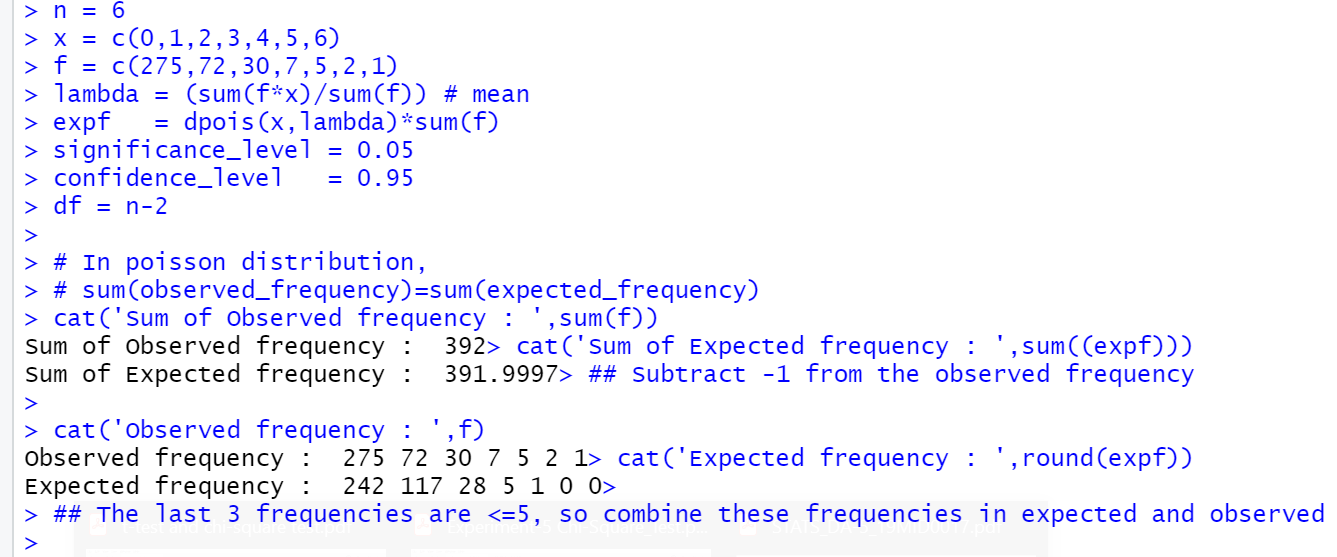
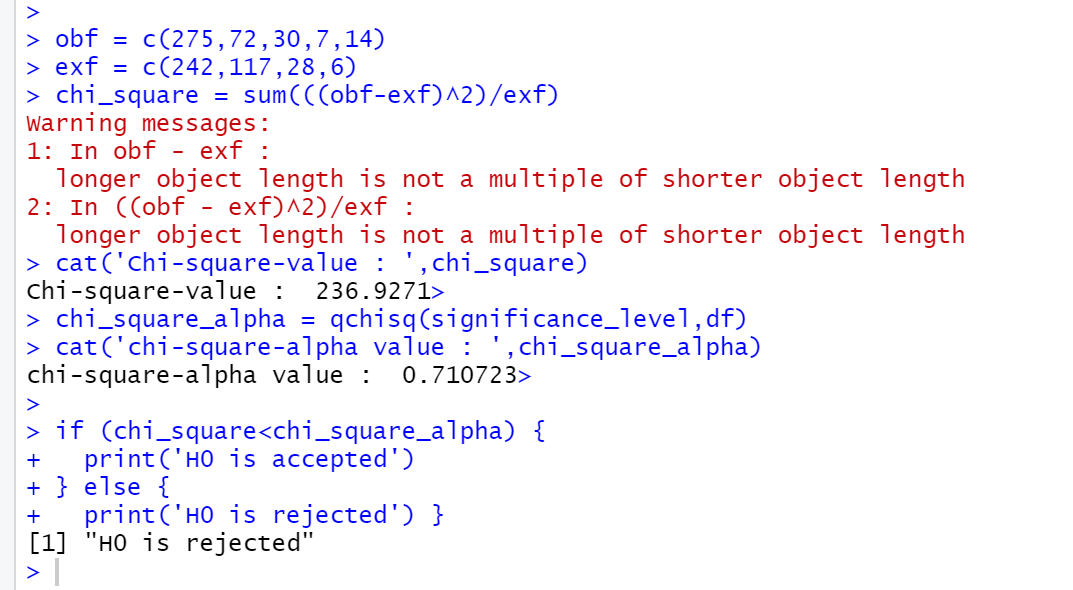




**Poisson Distribution as goodness of fit**

Problem-9)



Problem-10)

