19MID0020

1. Write R code to solve the following problem:

When a random variable takes the values 0,1,2,3,4,5 and 6, the observed frequencies are 109,53,131,12,35,21 and 12. Fit a Poisson distribution to the above data and test the goodness of fit.

```
RStudio R
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  Fibonacci series.R × B Lab Assignment-2.R ×

    □ 13-10-2020.R ×

  x = c(0,1,2,3,4,5,6)
   46
   47
       f = c(109,53,131,12,35,21,12)
   48
       Ef = sum(f)
   49
        Efx = sum(f*x)
   50
       lambda = Efx/Ef
   51
       expois = dpois(x, lambda)*sum(f)
   52
               = round(expois)
   53
        print(sum(f))
   54
       print(sum(f1))
   55
       print(f-f1)
       0=c(109,53,131,12,35,33)
   56
   57
        E=c(62,111,100,60,27,13)
   58
       cat('chi\square : ',chisq = sum((0-E)\\\^2/E))
   59
       df=5
       cat('chi^square_alpha : ',qchisq(0.95,df))
   60
   61
        print('H0 is rejected')
   62
   63
                                                        R Script $
   67:1
       # (Untitled) $
```

