**Assignment 6.2**

1. Use the given link below and locate the bank marketing dataset. Data Set Link

Perform the below operations:

a. Is there any association between Job and default?

b. Is there any significant difference in duration of last call between people having housing loan or not?

c. Is there any association between consumer price index and consumer?

d. Is the employment variation rate consistent across job types?

e. Is the employment variation rate same across education?

f. Which group is more confident?

1. Is there any association between Job and default?

#we are using Chi-Square Test for checking association as both job and default are categorical variables

#hence Chi-Square Test for checking association

#so first defining the null hypothesis

#Ho: There is no association between job and default

#Ha: There is association between job and default

chisq.test(bank.additional$job ,bank.additional$default)

> chisq.test(bank.additional$job ,bank.additional$default)

Pearson's Chi-squared test

data: bank.additional$job and bank.additional$default

X-squared = 224.29, df = 22, p-value < 2.2e-16

#now as we can see p value is nearly 0 or less which is henceforth less than 0.05

#p value<0.05 hence we will reject the null hypo and accept the alternative hypothesis

#which says that There is association between job and default.