Assignment 4.3

In a class on 100 students, 80 students possed in all subjects, 10 failed in one subject. I failed in two and 3 failed in three subjects. Find the purbability distribution of the variable for number of subjects a student from the given class has failed in.

For a grandom student,

The probability of folling in 0 subjects, P(x=0)=0.8The probability of folling in 1 subject,  $P(x=0)=\frac{10!}{160}=0.1$ a failing in 2 subjects,  $P(x=0)=0.07(\frac{7}{100})$ 

The parobability of failing in 3 subjects p(x=3) = 6.63, (3)

The perobability distribution can be shown as

1 x	0	1	2	3
p(SL)	0.8	0.0	0.07	0.03