1 assignment:  
  
a-try to integrate approximately the function (x^1+e^x)/(1+x^2) in the interval 0-1  
b-try to integrate approximately the function x^2 in the interval 0-1  
c-try to integrate approx the function sin(x^2+1) in the interval 0-1  
  
show numerical and graphical results  
remember that you should first evaluate a maximum value of the integrand  
possibly use a function which has n number of points as input  
  
2 assignment  
  
a generate random numbers from the discrete distribution: p1=0.3, p2=0.4, p3=0.3 with the acceptance rejecton method or other direct methods. draw a sample of size 1000, 10000, 1000000 and plo results  
b generate random numbers from the discrete distribution: p1=0.7, p2=0.18, p3=0.12 with the acceptance rejecton method or other direct method.  draw a sample of size n= 1000, 10000, 1000000 and plot results  
  
possibly use a function which has the number of points as input  
  
3 assignment  
  
a- draw samples of a given size of arithmetic mean from a poisson distribution  
b- draw samples of a given size  of arithmetic mean and median from a uniform distribution  
show numerical and graphical results  
------------------------------------------------------------------  
possibly use a function which has the number of points and the size of sample as input  
  
code at least one exercise for each assignment  
try to create functions, but at least make things work for assigned values of m or n

You can recycle code already used in lessons