Step 1:Calculate Variance of first set   
 Total Inputs (N) =(10,20,30,40,50)   
 Total Inputs (N)=5  
 Mean (xm)= 150/5   
 Means(xm)= 30    
 SD=sqrt(1/(N-1)\*((x1-xm)2+(x2-xm)2+..+(xn-xm)2))   
 =sqrt(1/(5-1)((10-30)2+(20-30)2+(30-30)2+(40-30)2+(50-30)2))    
 =sqrt(250)   
 =15.8114   
 Variance=SD2   
 Variance=15.81142   
 Variance=250   
  
Step 2:Calculate Variance of second set 5, 10,15,20,25:   
 Total Inputs(N) =(5,10,15,20,25)   
 Total Inputs(N)=5    
 Mean (xm)= 75/5   
 Means (xm)= 15   
 SD=sqrt(1/(N-1)\*((x1-xm)2+(x2-xm)2+..+(xn-xm)2))   
 =sqrt(1/(5-1)((5-15)2+(10-15)2+(15-15)2+(20-15)2+(25-15)2))    
 =sqrt(62.5)   
 SD=7.9057   
 Variance=SD2   
 Variance=62.5   
  
Step 3: Calculate the F test  
 F Test = (variance of 10, 20,30,40,50) / (variance of 5, 10, 15, 20, 25)   
 = 250/62.5   
 = 4.

The F Test value is 4.