F(0,0) = f(0,0).e° + f(0,1).e° +f(0,2).e° + f(1,0)·e°+ f(1,1)·e°+ f(1,2)·e°. +f(2,0)·e°+f(2,1)e°+ f(2,2).e° = 9+6+0+0+0-0-6-0=0 So, DC component of the gradient filter is on theme, if we thick means remaining out the average intensity of the image from the average intensity of high frequency

Components.