Gradient operator
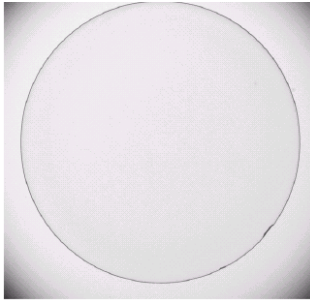
(a) Develop a program to compute gradient vectors using Sobel operator over the image fig3.5(a).

(b) Display G_x, G_y, ∇f, and Θ.

(c) Display the vectors (magnitude and direccion) as an optic flow arrows perpendicular to the edge (use matlab command quiver(Gx,Gy)).