UNIVERSITY OF TEXAS AT ARLINGTON

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

COMPUTER VISION

ASSIGNMENT 3

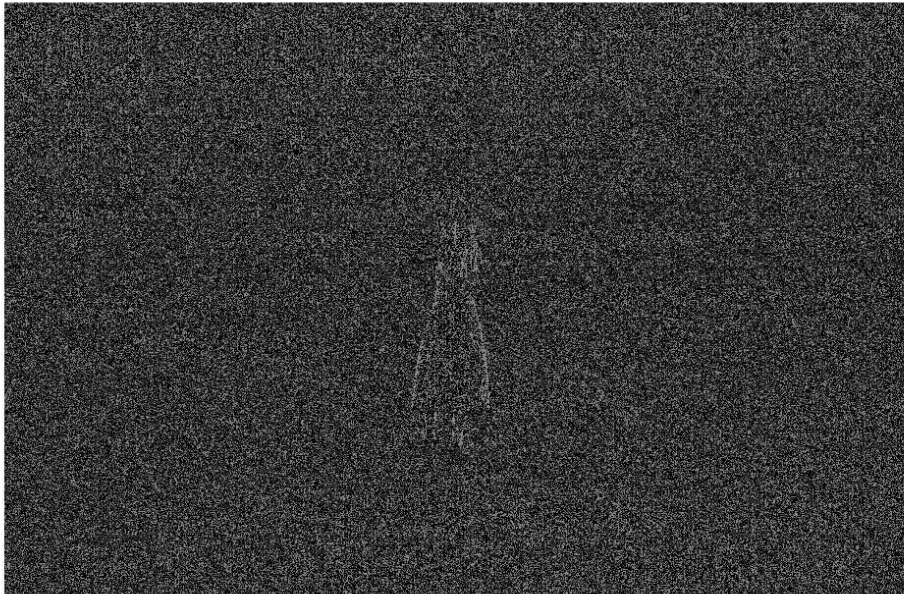**Nudrat Nawal Saber**

1001733394

Problem 1a

Input Image

gradient direction

roberts filter
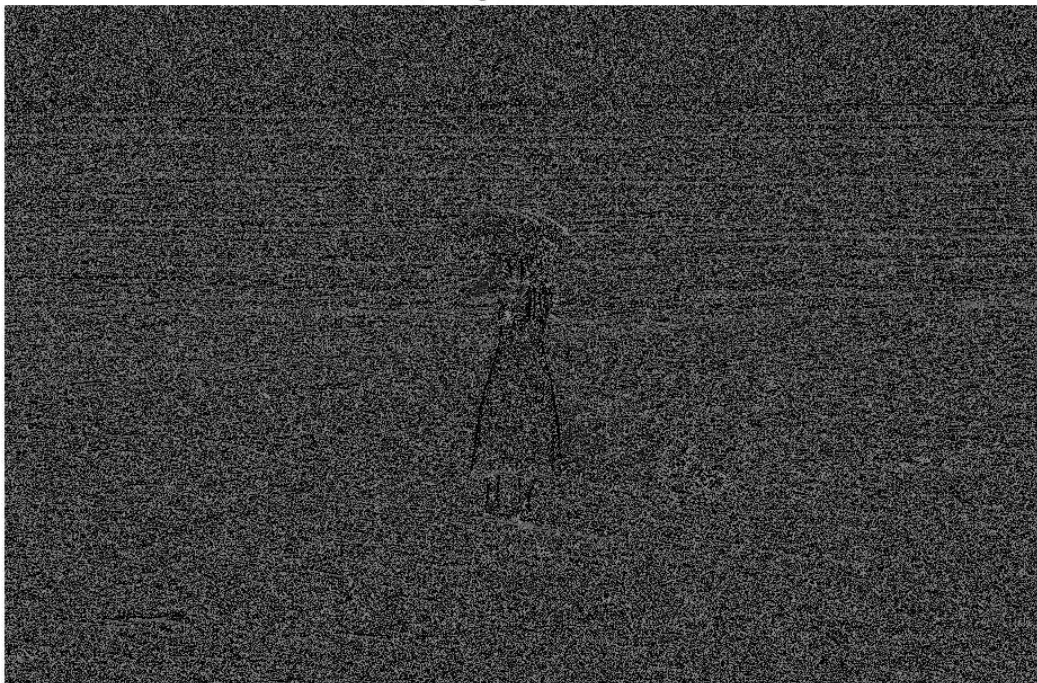

after thresholding roberts

Problem 1b

Input Image

SOBEL gradient direction

Sobel filter

After threshold Sobel edge detection

Applying sobel filter with 1/8 weight matrix

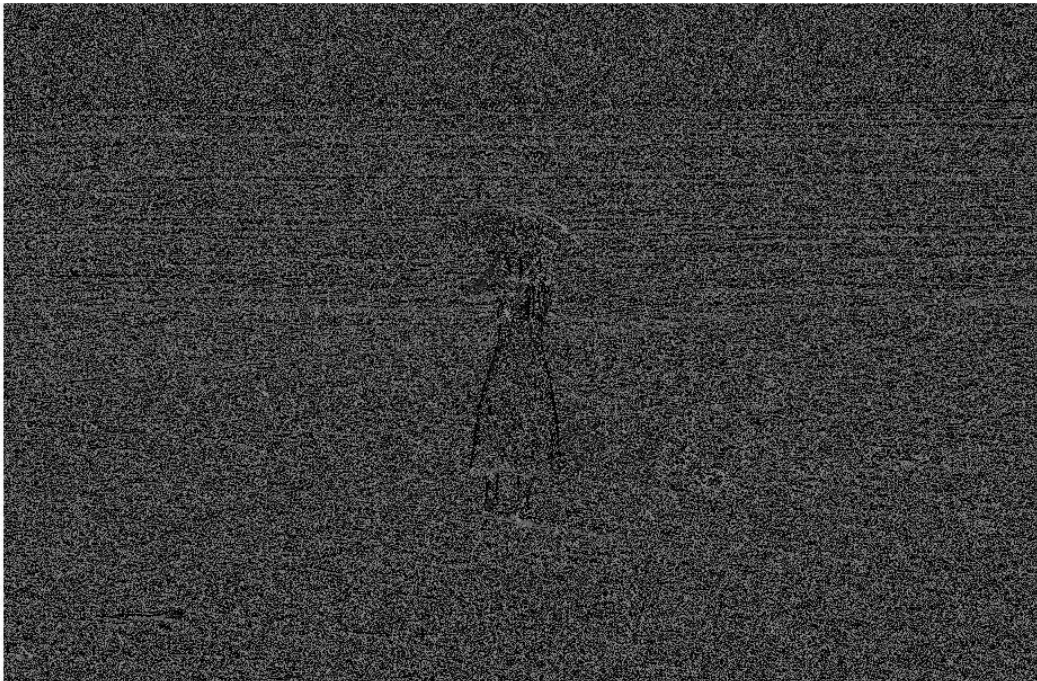**filtered image**

After threshold edge detection

Problem 1c

Input Image

gradient direction

prewitt filter

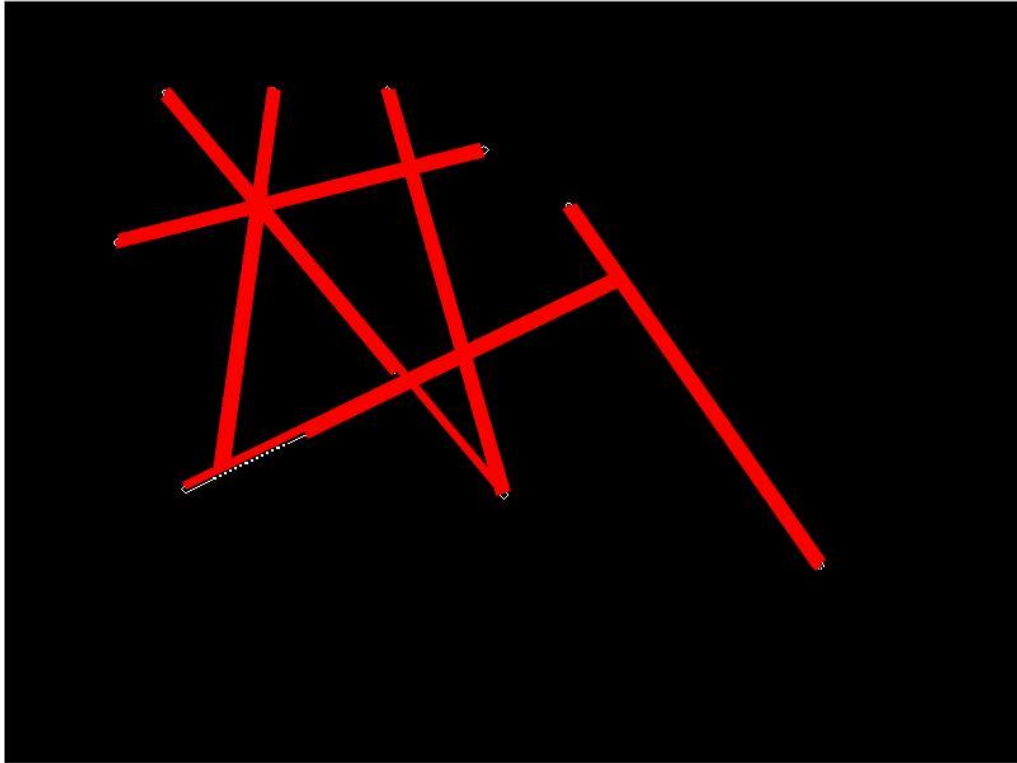**After threshold prewitt edge detection**

Problem 2

Extra Credit

Original Image

Thresholded Image with k = 163