import cv2  
import numpy as np  
  
image\_path = 'coins.jpg'  
image = cv2.imread(image\_path, cv2.IMREAD\_GRAYSCALE)  
if image is None:  
 raise ValueError("Image not found. Please check the file path.")  
  
blurred\_image = cv2.GaussianBlur(image, (5, 5), 0)  
  
adaptive\_thresh = cv2.adaptiveThreshold(  
 blurred\_image, 255, cv2.ADAPTIVE\_THRESH\_GAUSSIAN\_C,  
 cv2.THRESH\_BINARY, 11, 2  
)  
  
\_, simple\_threshold = cv2.threshold(blurred\_image, 127, 255, cv2.THRESH\_BINARY)  
  
cv2.imshow('Original Image', image)  
cv2.imshow('Blurred Image', blurred\_image)  
cv2.imshow('Adaptive Thresholding', adaptive\_thresh)  
cv2.imshow('Simple Thresholding', simple\_threshold)  
cv2.waitKey(0)  
cv2.destroyAllWindows()