Question 1: What is object detection in computer vision?

a. Image segmentation

b. Classifying images

c. Recognizing objects and their locations in an image

d. Enhancing image resolution

Question 2: Which of the following algorithms is commonly used for object detection?

a. K-Means Clustering

b. Support Vector Machines (SVM)

c. Convolutional Neural Network (CNN)

d. Decision Trees

Question 3: What is the purpose of bounding boxes in object detection?

a. To classify objects

b. To mark the location of objects in an image

c. To resize images

d. To rotate objects in an image

Question 4: What condition is checked before processing and displaying bounding boxes?

a. The number of bounding boxes is not equal to zero i.e. the image contains at least one object

b. The average confidence score is above a threshold

c. The image contains one object

d. The total area covered by bounding boxes exceeds the threshold

Question 5: What is the purpose of the cv2.rectangle function in the code?

a. To resize the image

b. To draw a rectangle around the detected object

c. To apply color normalization to the image

d. To rotate the image based on detected objects