TASK 2

Code snippets:

1)

while (cap.isOpened()):  
 ret, frame = cap.read()  
 if ret == True:  
 crop\_frame = frame[y:y + h, x:x + w]  
  
  
 if count%2 !=0:  
 cv2.imshow('frame', crop\_frame)  
 else:  
 crop\_frame = cv2.flip(crop\_frame, 0)  
 cv2.imshow('frame', crop\_frame)  
 count += 1  
  
 if cv2.waitKey(1) & 0xFF == ord('q'):  
 break

2)

while(cap.isOpened()):  
 ret, frame = cap.read()  
  
 if count%n == 0:  
 cv2.imwrite('IMG\_' + str(count)+'.jpg',frame)  
 continue  
 count += 1  
 if cv2.waitKey(1) & 0xFF == ord('q'):  
 break

3)

while (cap.isOpened()):  
 ret, frame = cap.read()  
 if ret == True:  
  
  
 if count%5000 != 0:  
 cv2.imshow('frame', frame)  
 else:  
 frame = cv2.flip(frame,0)  
 cv2.imshow('frame', frame)  
  
 count += 1  
 if cv2.waitKey(1) & 0xFF == ord('q'):  
 break  
 else:  
 break

MEANING AND USE:

1. Teach cropping of window using opencv and numpy indexing. Build logic about not stacking and iterating through loops. Also strengthens if-else concepts
2. Learning to save frames of a recognizable object and keep images ready for datasets.
3. Builds concepts about FPS and if-else

PROBLEMS FACED:

1. Window was continually stacking on the original
2. Misunderstood the question, felt that it was object tracking

SOLUTIONS AND APPROACH:

1. Read more about ROI and tried to apply concepts
2. Jatin cleared the doubt