CODE

```
 import face_recognition

import cv2 import numpy as

np import csv import os from

datetime import datetime


  video_capture = cv2.VideoCapture(0)


  aryan_image = face_recognition.load_image_file("images/aryan.jpg")

aryan_encoding = face_recognition.face_encodings(aryan_image)[0]


          anshuman_image = face_recognition.load_image_file("images/anshuman.jpg")

          anshuman_encoding = face_recognition.face_encodings(anshuman_image)[0]


    shivay_image = face_recognition.load_image_file("images/shivay.jpg")

shivay_encoding = face_recognition.face_encodings(shivay_image)[0]


    sourav_image = face_recognition.load_image_file("images/sourav.jpg")

sourav_encoding = face_recognition.face_encodings(sourav_image)[0]
```

```
    known_face_encoding = [
aryan_encoding,      anshuman_encoding,
shivay_encoding,      sourav_encoding


  ]


    known_faces_names = [
"Aryan Yadav",
    "Anshuman Sharma",
    "Shivay Yadav",
    "Sourav Patidar"
    ]


   students = known_faces_names.copy()


   face_locations = [] face_encodings = [] face_names = [] s = True


     now = datetime.now()       current_date =
now.strftime("%Y-%m-%d")


     f = open(current_date + '.csv', 'w+', newline='')
lnwriter = csv.writer(f)
```

```
    while True:
    _, frame = video_capture.read()        small_frame =
cv2.resize(frame, (0, 0), fx=0.25, fy=0.25)        rgb_small_frame =
np.ascontiguousarray(small_frame[:, :, ::-1])
     if s:
     face_locations = face_recognition.face_locations(rgb_small_frame)
face_encodings = face_recognition.face_encodings
     (rgb_small_frame, face_locations)         face_names = []
for face_encoding in face_encodings:             matches =
face_recognition.compare_faces       (known_face_encoding,
face_encoding)       name = ""        face_distance =
face_recognition.face_distance
     (known_face_encoding, face_encoding)
best_match_index = np.argmin(face_distance)             if
matches[best_match_index]:
     name = known_faces_names[best_match_index]

    face_names.append(name)
if name in known_faces_names:
    font = cv2.FONT_HERSHEY_SIMPLEX
bottomLeftCornerOfText = (10, 100)
fontScale = 1              fontColor = (0, 0, 0)
```

```
    thickness = 3
lineType = 2



    cv2.putText(frame, name + ' Present',
bottomLeftCornerOfText,
    font,
fontScale,
fontColor,
thickness,
lineType)


   if name in students:
students.remove(name)
print(students)                current_time =
now.strftime("%H:%M:%S")
lnwriter.writerow([name, current_time])
cv2.imshow("attendence system", frame)      if
cv2.waitKey(1) & 0xFF == ord('q'):
   break
   video_capture.release() cv2.destroyAllWindows()
   f.close()
```