**Attendence Project Using Facial Recognition**

**INTRODUCTION**

**U**se of face recognition for the purpose of attendance marking is the smart way of attendance management system. Face recognition is more accurate and faster technique among other techniques and reduces chance of proxy attendance. Face recognition provide passive identification that is a person which is to be identified does not to need to take any action for its identity.

Face recognition involves two steps, first step involves the detection of faces and second step consist of identification of those detected face images with the existing database. There are number of face detection and recognition methods introduced. Face recognition works either in form of appearance based which covers the features of whole face or feature based which covers the geometric feature like eyes, nose, eye brows, and cheeks to recognize the face .

**Steps to run Attendence Management Project:**

**1.** First, We have to **IMPORT** the following packages

1. cv2 (*pip install opencv-python*)
2. numpy (*pip install numpy*)
3. face\_recognition (*pip install face-recognition)*
4. os *(pip install os-sys)*
5. datetime (*pip install DateTime*)
6. tkinter (*pip install tk*)
7. PIL *(pip install Pillow)*
8. csv *(pip install python-csv)*
9. shutil *(pip install shutils)*

**2.** Including the above packages installation you need to install the visual studio of any version which includes **Development of c/c++ tools** for installation of cmake(*pip install cmake)* which is very essential component in detecting the faces.

**3**. Create the following directory to store the photos and csv file results, as it contains system dependent paths which are only accepted by the source code for accessing this two folders.

>>>C:\New\_folder\masab\_tank\facialRecognitionProject\AttendencePics\

>>>C:\New\_folder\masab\_tank\facialRecognitionProject\Attendence.csv

**4.** Make sure every file is present in the location given in the source code..

**5**. Now execute the “***AttendenceProject.py***” file , which performs complete Attendence Management System.