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PART 1 :

1. Run the GStreamer shell script with the input video file:
`./run_gstreamer.sh <input_video.mp4> '`
2. g++ -std=c++17 Compiler used.

PART 2 :

1. Compile the application using 'make' command.
2. './face_detector' is the compiled and executable c++ file.
3. Run the application:
`./face_detector <input_directory> <output_directory>'`
4. XML Pre-trained Classifier used:
`'haarcascade_frontalface_alt.xml'`

Input Dir: [input_frames](#)

Output Dir: [output_faces](#)

Summary of Submission:

1. **Shell Script (run_gstreamer.sh):** For the GStreamer pipeline.
2. **Output of Part 1 (input_frames):** JPEG frames generated by the pipeline.
3. **C++ Application (face_detector.cpp):** For face detection and saving cropped faces.

4. **Compilation Script (Makefile):** For building the C++ application.
5. **Output of Part 2 (output_faces):** Directory structure with cropped faces.