# TUTORIAL 11

Start up Android Studio and create a new project, using appropriate values for package name, minimum SDK version and default activity.

**Complete at least one of the tasks below** depending on relevance to your proposed project:

1.    Create an activity that uses the Android Camera API (instead of a `REQUEST_TAKE_PHOTO` Intent) to show a live preview of the camera and enable the user to take an image.

    Follow the *"Controlling the Camera"* tutorial at:
    https://developer.android.com/training/camera/cameradirect.html

    If you get stuck, study the `Camera2Basic` example application:

    | | |
    |---|---|
    | Import example: | *File > New > Import Sample > Camera2 > Camera2Basic* |
    | - or - | |
    | Read code on GitHub: | *https://github.com/googlesamples/android-Camera2Basic/* |

2.    Create an activity that has two buttons, `Record` and `Play`, and uses the `MediaRecorder` and `MediaPlayer` classes to record and play back audio recordings.

    Follow the *"MediaRecorder"* tutorial at:
    https://developer.android.com/guide/topics/media/mediarecorder.html

    If you get stuck, study the `MediaRecorder` example application:

    | | |
    |---|---|
    | Import example: | *File > New > Import Sample > Media > MediaRecorder* |
    | - or - | |
    | Read code on GitHub: | *https://github.com/googlesamples/android-MediaRecorder/* |