

### 1. Open PyCharm:

- Launch PyCharm from your computer's application menu or desktop shortcut.

### 2. Create a new project:

- Once PyCharm is open, click on "Create New Project" or go to "File" > "New Project".
- In the "New Project" dialog, choose a location for your project by selecting a directory.
- Enter a name for your project in the "Project name" field.
- Click "Create" to create the project.

### 3. Set up the project interpreter:

- After creating the project, PyCharm will prompt you to set up the project interpreter.
- Select the Python interpreter you want to use for your project. If it's not listed, click the "..." button to locate it.
- Once the interpreter is selected, click "Create" to set up the project.

### 4. Install required packages:

- In PyCharm, go to "File" > "Settings" (on Windows/Linux) or "PyCharm" > "Preferences" (on macOS).
- In the settings window, navigate to "Project" > "Python Interpreter".
- On the right side, you'll see a list of installed packages.
- Click on the "+" button to install a new package.
- In the search bar, enter the name of the package you want to install (e.g., "opencv-python").
- Select the package from the search results and click "Install Package" to install it.

- Repeat this process for any other required packages (e.g., "numpy", "keras", "pygame").

#### 5. Create a new Python file:

- Right-click on your project directory in the PyCharm project explorer.
- Select "New" > "Python File" to create a new Python file.
- Give the file a name (e.g., "drowsiness\_detection.py") and click "OK".

#### 6. Copy the code:

- Copy the code for the "Driver Drowsiness Detection" program and paste it into the newly created Python file in PyCharm.

#### 7. Configure paths and file locations:

- In the code, you'll notice several file paths specified for the cascade classifiers, model, and sound file.
- Modify these paths to match the actual locations of the respective files on your computer.

#### 8. Run the program:

- To run the program, simply click the "Run" button (usually a green triangle) in the toolbar.
- Alternatively, you can right-click anywhere in the code editor and select "Run 'drowsiness\_detection'".
- The program will start executing, and if a camera is available, it will open a window showing the drowsiness detection in action.
- To stop the program, press the "q" key or click the "Stop" button in the toolbar.