PYTHON CODE TO APK

1. **Code** using Pycharm

2. **Import** All need to Google Collab:

https://colab.research.google.com/gist/kaustubhgupta/0d06ea84760f65888a2488bac9922c25/kivyapp-to-apk.ipynb#scrollTo=EeTysn9dntOO

3. **Install** all lib

4. **Start** *buildozer init* to create buildozer.spec file

5. **Change** the following to buildozer.spec:

   - Line 4 - Title: My App
   - Line 40 - requirements = python3==3.7.6,hostpython3==3.7.6,kivy,pillow
   - Line 47 - presplash.filename = %(source.dir)s/icon_open.png -remove "#"
   - Line 50 - icon.filename = %(source.dir)s/icon.png -remove "#"
   - Line 67 - osx.python_version = 3.7.6
   - Line 139 - android.accept_sdk_license = True -optional -remove "#"
   - Line 408 - warn_on_root = 0

6. **Download** the buildozer.spec File

7. **Go** to Github.com and **Create** Repository

8. **Upload** all the components for the app.

9. **Create** folder ./github/workflows/build.yml that contains the following code:

```
name: CI
on:
  push:
    branches: [ main ]

jobs:
  build:
```

```yaml
    runs-on: ubuntu-20.04

    steps:
      - uses: actions/checkout@v2

      # used to cache dependencies with a timeout
      - name: Get Date
        id: get-date
        run: |
          echo "::set-output name=date::$(/bin/date -u "+%Y%m%d")"
        shell: bash

      - name: Cache Buildozer global directory
        uses: actions/cache@v2
        with:
          path: .buildozer_global
          key: buildozer-global-${{ hashFiles('buildozer.spec') }} # Replace with your path

      - uses: actions/cache@v2
        with:
          path: .buildozer
          key: ${{ runner.os }}-${{ steps.get-date.outputs.date }}-${{ hashFiles('buildozer.spec') }}

      - name: Build with Buildozer
        uses: ArtemSBulgakov/buildozer-action@v1
        id: buildozer
        with:
          command: buildozer android debug
          buildozer_version: stable

      - name: Upload artifacts
        uses: actions/upload-artifact@v2
        with:
          name: package
          path: ${{ steps.buildozer.outputs.filename }}
```
10. **Check** the **Action** Tab

11. **Click** build.yml to see **Progress**

12. **Go** to **Artifacts** where the package/apk is located.