

This is for Lab2 OF IoT Course, Please follow IoTLab2.pdf manuals first, while you reaches the procedure of creating the Android App, you need to read this file before you dive in.

1. Please noticed the IoTLab2App is your Andorid Studio file, do not change any file haven't metioned here.
2. In funtion:

```
public void run (String command) {  
    String hostname = "RPI_IP_ADDRESS";  
    String username = "RPI_USERNAME";  
    String password = "RPI_PASSWORD";
```

change the parameters with your Raspberry pi.

RPI_IP_Address can be found by command: `hostname -I`

RPI_USERNAME is the username of Raspberry pi we give you during the lab.

RPI_PASSWORD is the password or Raspberry pi we give you during the lab.

3. In function:

```
@Override  
protected void onCreate(Bundle savedInstanceState) {
```

Find the Definition with this kind of format:

```
new AsyncTask<Integer, Void, Void>() {  
    @Override  
    protected Void doInBackground(Integer... params) {  
        run("python turnondevices.py");  
        return null;  
    }  
    @Override  
    protected void onPostExecute(Void r) {  
        lightToggle.setText("ON");  
    }  
}.execute(1);  
else {
```

In the `run("")`, you need to add the python script you want to running in Raspberry Pi, the syntax is:

python The python script name

Please make sure all the scripts are in `/home/[username]` or `~/`

eg: my raspberry pi username is: iotlab2025 I want to running `trunon.py`, so i put script in `/home/iotlab2025`, also you can put script your in `~/` (The `~` means `/home/iotlab2025`), and then run method is like `run("python trunon.py")`