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eYRC 2021-22: Agri Bot (AB)

## Command: rosrun

rosrun allows you to run an executable in an arbitrary package from anywhere without having to give its full path or cd/roscd there first.

## Usage:

rosrun <package> <executable>

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<package> is nothing but the package name which you have created using catkin\_create\_pkg
command or used any other package.

<executable> is the python or cpp file.

## To create an executable python file

After creating a package, create a folder in the package names as scripts folder to store all the python files in that folder.

cd ~/catkin\_ws/src/<package>
mkdir scripts

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Here we can create python scripts by running this command by going into the scripts directory,

cd scripts
touch filename.py



Now you can edit your python file and before running you have to make it executable by running this command once,

cd ~/catkin\_ws/src/<package>/scripts
chmod +x filename.py

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## To create an executable cpp file

After creating a package, create a folder in the package names as <code>src</code> folder to store all the cpp files in that folder.

cd ~/catkin\_ws/src/<package>
mkdir src



Here we can create cpp files by running this command by going into the src directory,

cd src
touch filename.cpp



Now you can edit your cpp file, but for making it executable we have to edit the CMakeLists.txt file which is present in the package.

Add these few lines at the bottom of CMakeLists.txt file,

add\_executable(filename src/filename.cpp)
target\_link\_libraries(filename \${catkin\_LIBRARIES})



Then run this command,

cd ~/catkin\_ws
catkin build

