

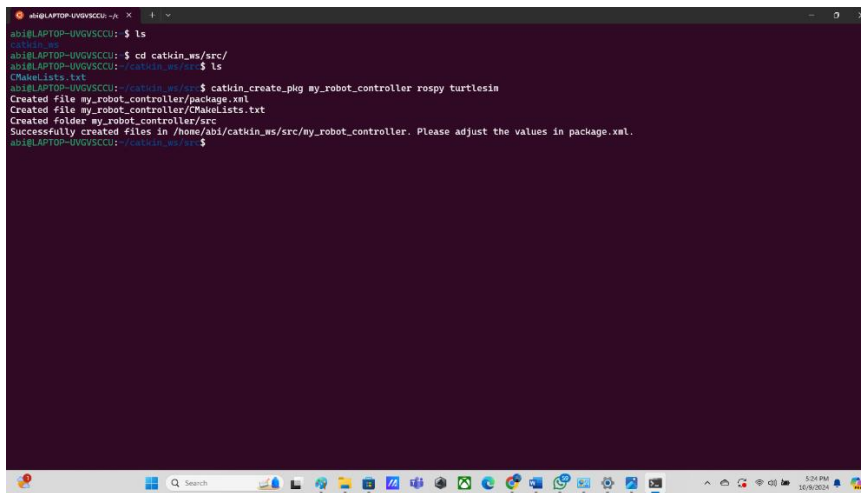
## Langkah-Langkah ROS Tutorial 4 (ROS1)

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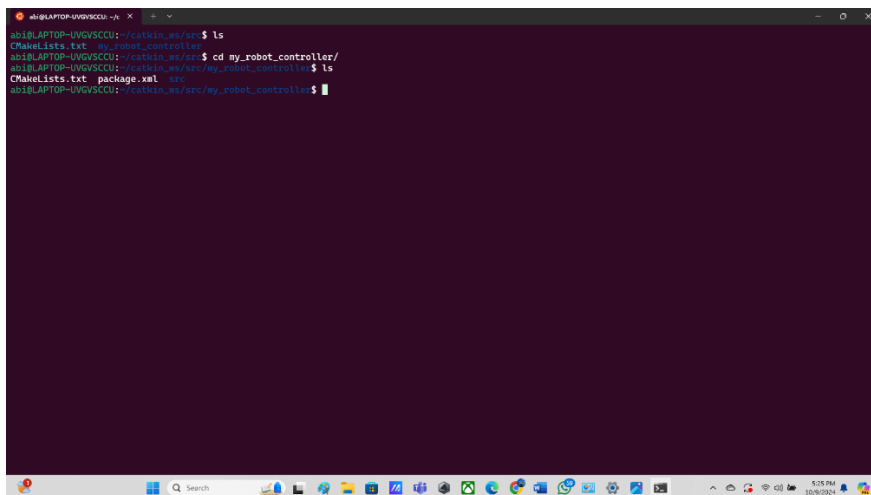
Kelas : TK-45-G09

1. Masuk ke direktori `~/catkin_ws/src` dengan syntax `cd ~/catkin_ws/src/` lalu masukkan syntax `catkin_create_pkg my_robot_controller rospy turtlesim` untuk membuat sebuah ROS package baru bernama **my\_robot\_controller** yang bergantung pada **rospy** dan **turtlesim**



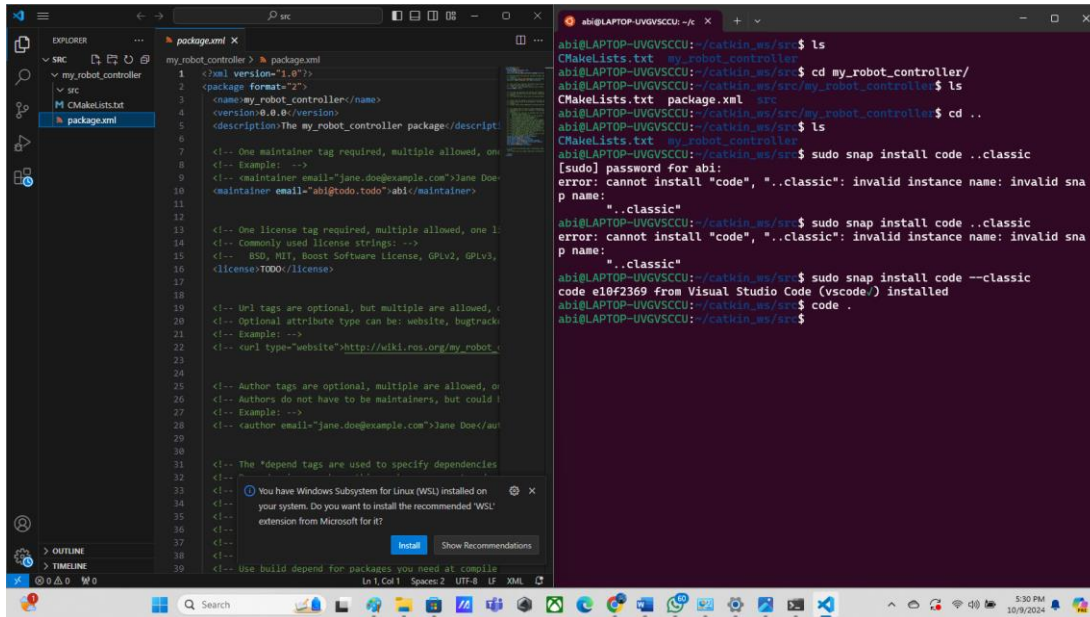
```
abdi@LAPTOP-UVGVSCCU: ~$ ls
catkin_ws
abdi@LAPTOP-UVGVSCCU: ~$ cd catkin_ws/src/
abdi@LAPTOP-UVGVSCCU: ~/catkin_ws/src$ ls
CMakeLists.txt
abdi@LAPTOP-UVGVSCCU: ~/catkin_ws/src$ catkin_create_pkg my_robot_controller rospy turtlesim
Created file my_robot_controller/package.xml
Created file my_robot_controller/CMakeLists.txt
Created folder my_robot_controller/src
Successfully created files in /home/abdi/catkin_ws/src/my_robot_controller. Please adjust the values in package.xml.
abdi@LAPTOP-UVGVSCCU: ~/catkin_ws/src$
```

2. Masukkan syntax `cd my_robot_controller` untuk masuk ke dalam direktori, lalu `ls` untuk menampilkan isinya



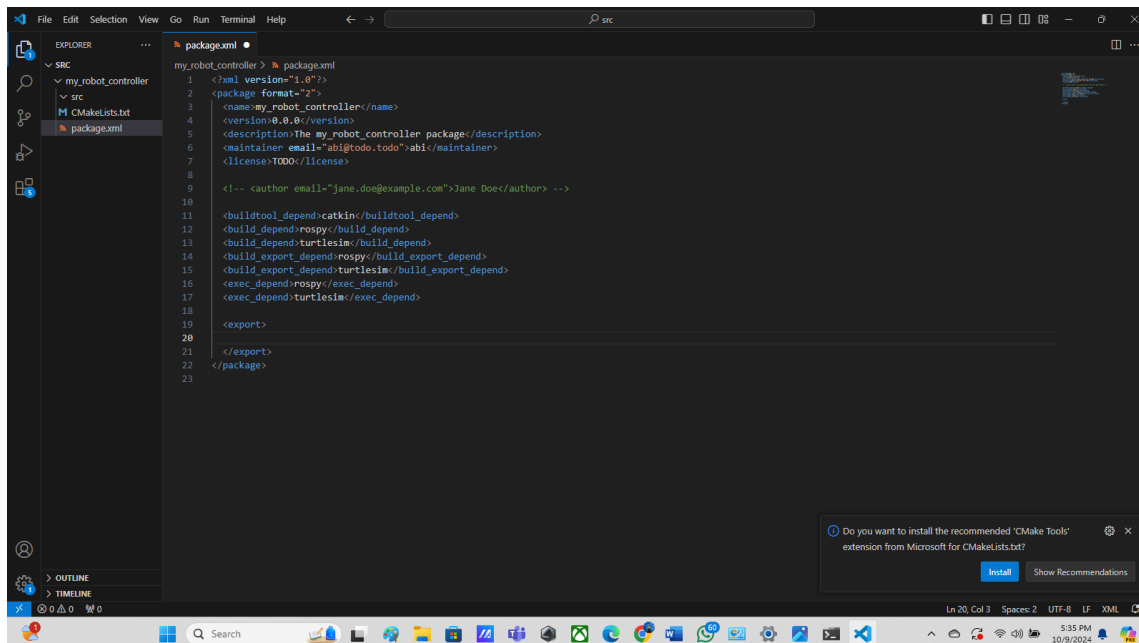
```
abdi@LAPTOP-UVGVSCCU: ~$ cd catkin_ws/src$ ls
CMakeLists.txt  my_robot_controller
abdi@LAPTOP-UVGVSCCU: ~/catkin_ws/src$ cd my_robot_controller/
abdi@LAPTOP-UVGVSCCU: ~/catkin_ws/src/my_robot_controller$ ls
CMakeLists.txt  package.xml  src
abdi@LAPTOP-UVGVSCCU: ~/catkin_ws/src/my_robot_controller$
```

3. Masukkan syntax **sudo snap install code -classic** untuk menginstall **Visual Studio Code** lalu **code .** untuk membuka package yang baru dibuat di dalam **Visual Studio Code**



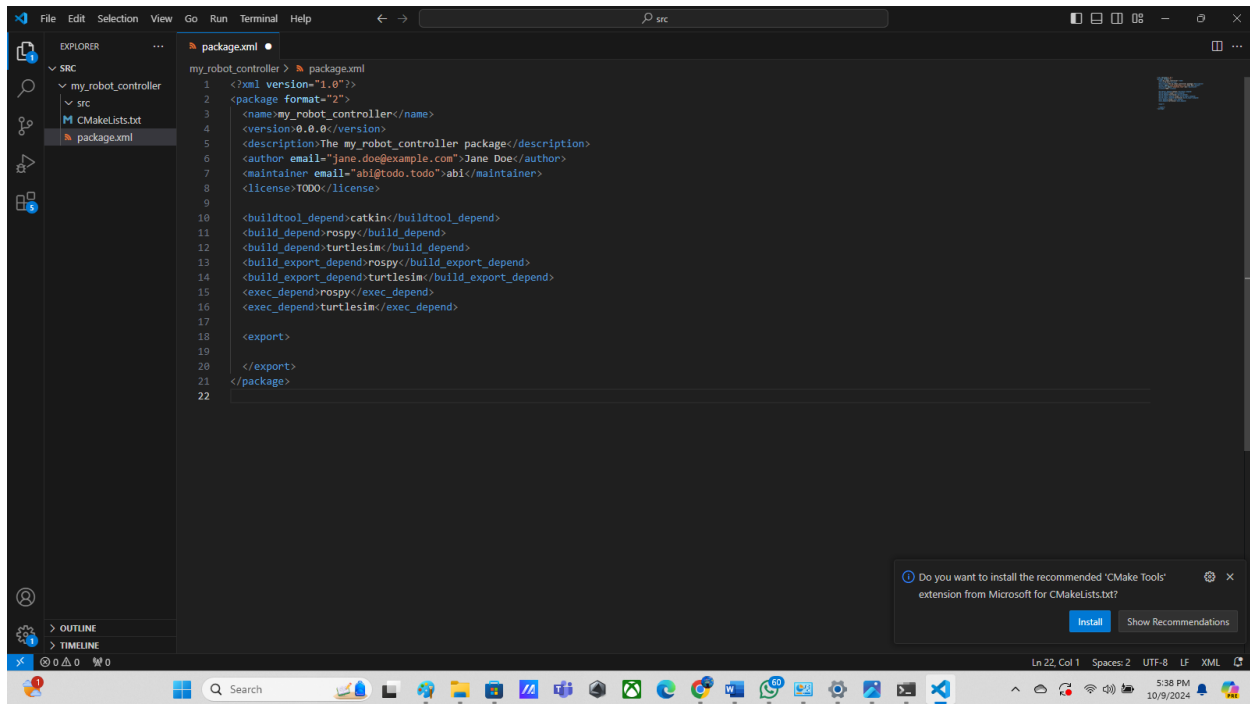
```
abi@LAPTOP-UVGVSCCU:~/catkin_ws/src$ ls
CMakeLists.txt  my_robot_controller
abi@LAPTOP-UVGVSCCU:~/catkin_ws/src$ cd my_robot_controller/
abi@LAPTOP-UVGVSCCU:~/catkin_ws/src/my_robot_controller$ ls
CMakeLists.txt  package.xml  src
abi@LAPTOP-UVGVSCCU:~/catkin_ws/src/my_robot_controller$ cd ..
abi@LAPTOP-UVGVSCCU:~/catkin_ws/src$ ls
CMakeLists.txt  my_robot_controller
abi@LAPTOP-UVGVSCCU:~/catkin_ws/src$ sudo snap install code -classic
[sudo] password for abi:
error: cannot install "code", "..classic": invalid instance name: invalid snap name: "..classic"
abi@LAPTOP-UVGVSCCU:~/catkin_ws/src$ sudo snap install code -classic
error: cannot install "code", "..classic": invalid instance name: invalid snap name: "..classic"
abi@LAPTOP-UVGVSCCU:~/catkin_ws/src$ sudo snap install code --classic
code e10f2369 from Visual Studio Code (vscode/) installed
abi@LAPTOP-UVGVSCCU:~/catkin_ws/src$ code .
abi@LAPTOP-UVGVSCCU:~/catkin_ws/src$
```

4. Buka file **package.xml**, akan menampilkan kode, hapus komentar yang tidak terpakai untuk membersihkan tampilan file dari komentar yang tidak diperlukan. Sisakan baris yang berisi informasi author email

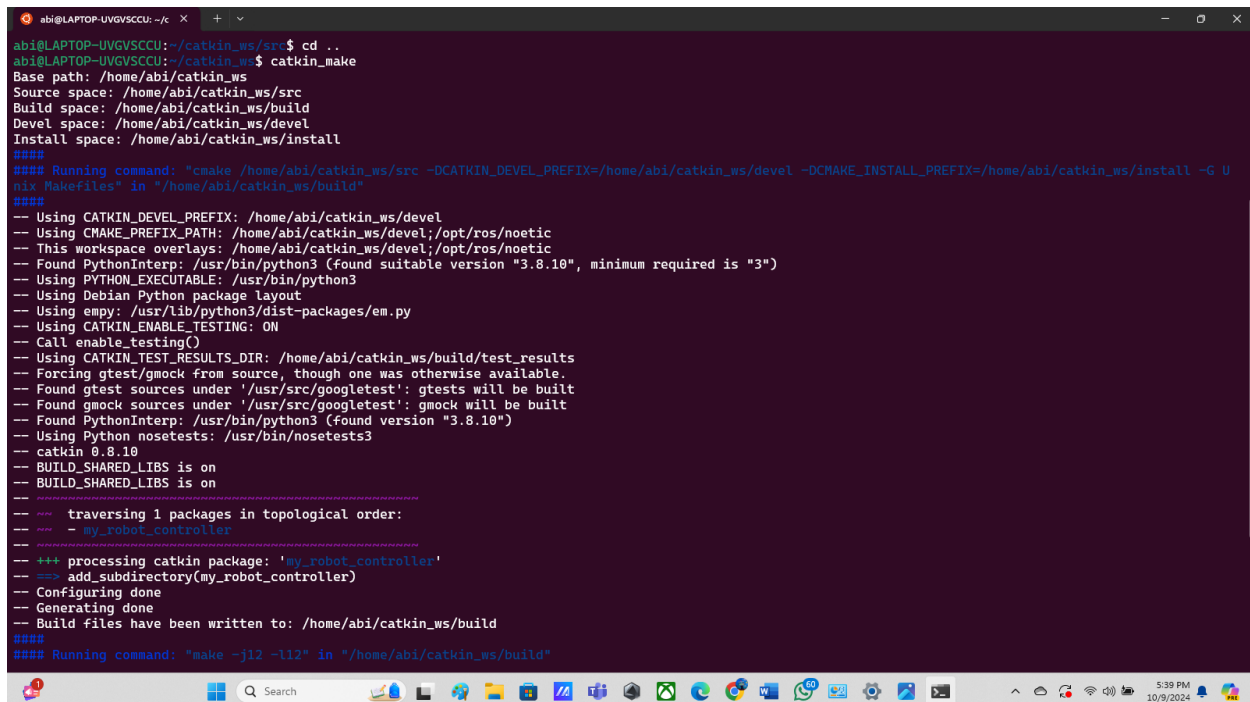


```
1 <?xml version="1.0"?>
2 <package format="2">
3   <name>my_robot_controller</name>
4   <version>0.0.0</version>
5   <description>The my_robot_controller package</description>
6   <maintainer email="abi@todo.todo">abi</maintainer>
7   <license>TODO</license>
8
9   <!-- <author email="jane.doe@example.com">Jane Doe</author> -->
10
11   <buildtool_depend>catkin</buildtool_depend>
12   <build_depend>roscpp</build_depend>
13   <build_export_depend>roscpp</build_export_depend>
14   <exec_depend>roscpp</exec_depend>
15   <exec_export_depend>roscpp</exec_export_depend>
16   <exec_depend>turtlesim</exec_depend>
17
18   <export>
19
20   </export>
21 </package>
```

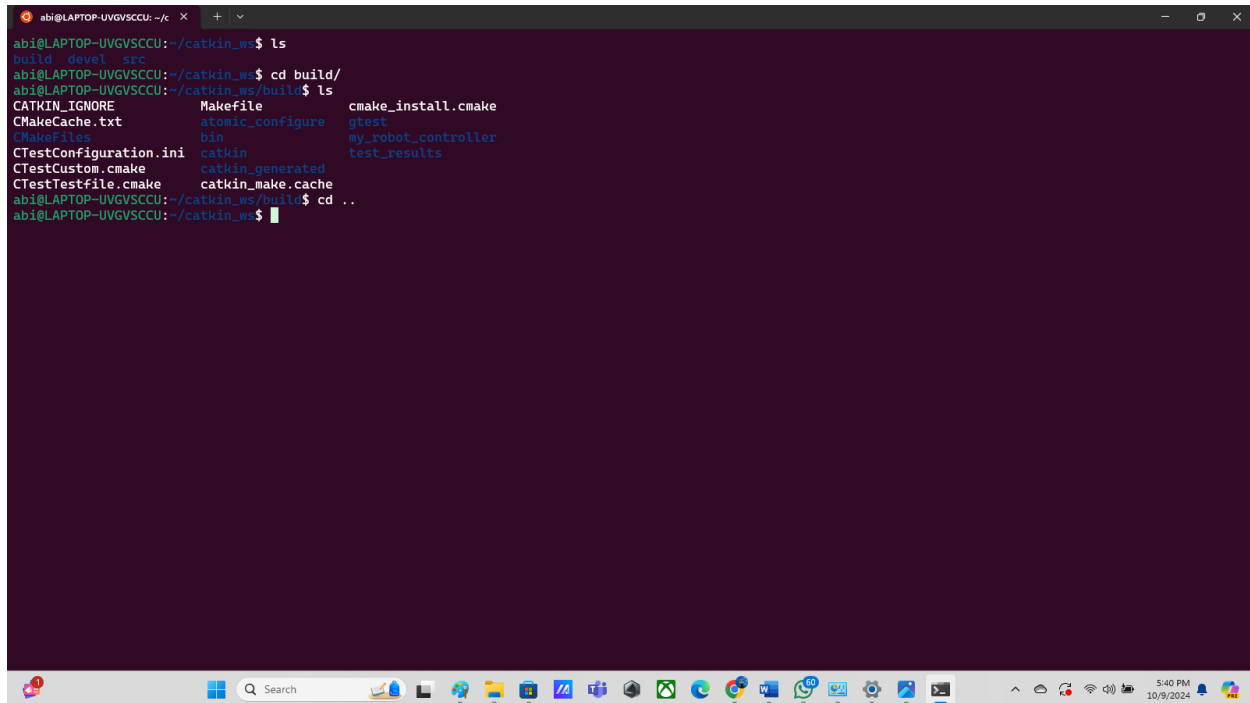
5. Hilangkan tanda komentar lalu pindahkan kode author email ke bagian atas file lalu simpan file tersebut.



6. `cd ..` untuk kembali ke direktori `~/catkin_ws/src`, lalu `catkin_make` untuk membangun workspace dengan package yang baru saja dibuat.



7. **cd build/** untuk masuk ke direktori build yang baru saja dihasilkan oleh **catkin\_make** lalu **ls** untuk melihat isi dari direktori build. Masukkan syntax **cd ..** untuk Kembali ke direktori sebelumnya



```
abi@LAPTOP-UVGVSCCU: ~/catkin_ws$ ls
build  devel  src
abi@LAPTOP-UVGVSCCU:~/catkin_ws$ cd build/
abi@LAPTOP-UVGVSCCU:~/catkin_ws/build$ ls
CATKIN_IGNORE      Makefile          cmake_install.cmake
CMakeCache.txt     atomic_configure  gtest
CMakeFiles          bin              my_robot_controller
CTestConfiguration.ini  catkin           test_results
CTestCustom.cmake    catkin_generated
CTestTestFile.cmake   catkin_make.cache
abi@LAPTOP-UVGVSCCU:~/catkin_ws/build$ cd ..
abi@LAPTOP-UVGVSCCU:~/catkin_ws$
```