Program Template EXPLAINED

Pick and Place Single Gripper

ADAPTIVE GRIPPERS



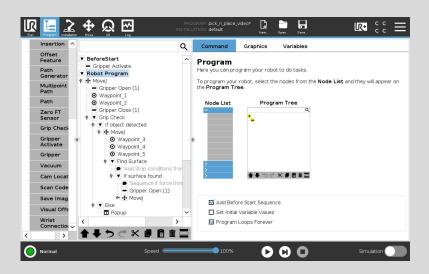


PROGRAM TEMPLATE USING ADAPTIVE GRIPPERS



Description

Use this document to help you program your application using the template for the **Adaptive Gripper.** You can learn more about the steps on how to program your first Adaptive Gripper application using the available video for this course. Visit *support.robotiq.com* for more details.



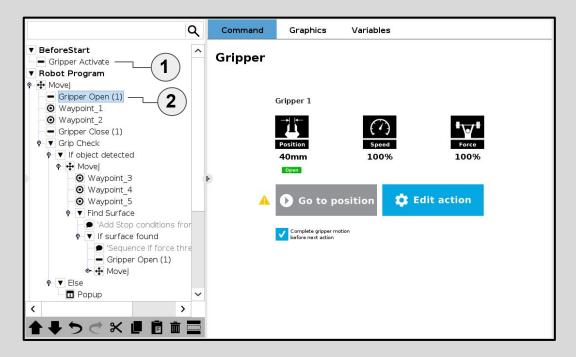
What you will need

- Robotiq Adaptive Gripper
- Robotiq Copilot
- Latest URCaps
 - Gripper URCap UCG-X.X.X.X
 - Copilot URCap UCS-X.X.X
- Universal Robot UR3e, UR5e, UR10e or UR16e
- Part for pick and place
- Program Template: PICKNPLACE.lesson.urp









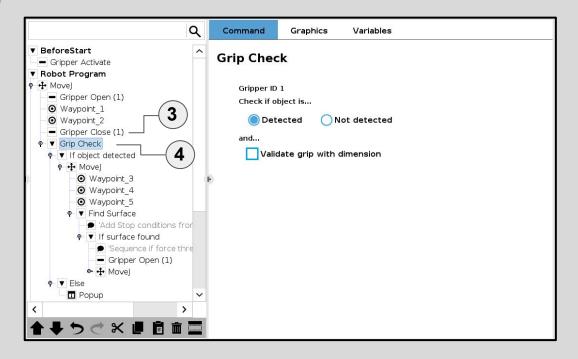
Gripper ActivateBefore starting the main program, *activate* the gripper.

Open Gripper and Move to the Part
Open the gripper and move it over the part.









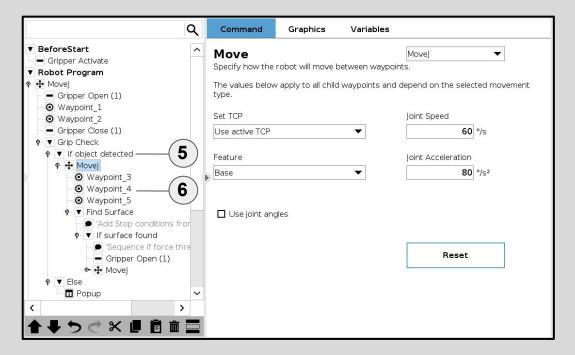
Gripper Close
Close the gripper on the part.

4 Grip Check
Insert a Grip Check
command to confirm the
object is properly picked up.









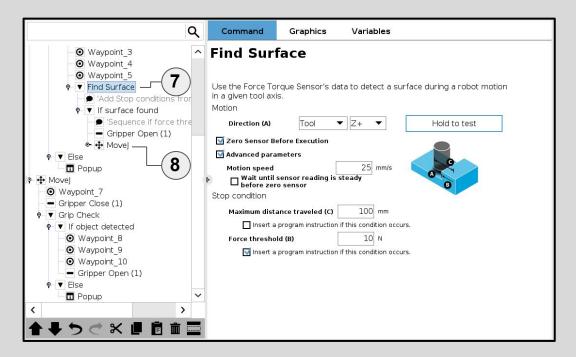
- (5) If/Else
 - If the part is detected, move it to the drop point.
 Otherwise, insert a popup to warn the user that there is no part.
- Move the Part over the Drop Point

 Move the part just over the drop point.







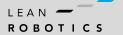


7 Find Surface
Use the find surface to make sure that the part is correctly positioned.

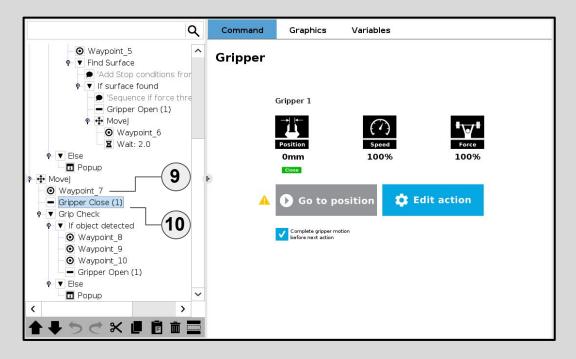
Move
Open the gripper and move it away from the part.

Open the Gripper and









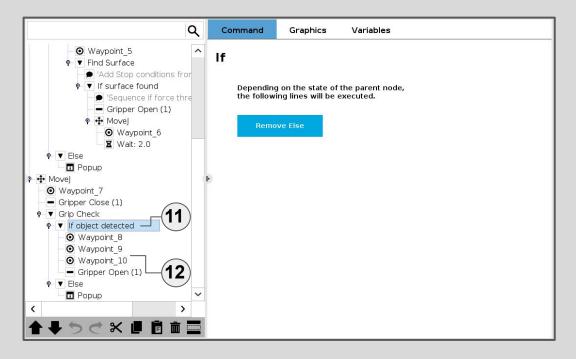
9 Move to the Part
Move over the part to grip it.

10 Grip Close and Grip Check Close the gripper and perform a *Grip Check* to make sure the part is properly gripped.





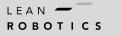




- 11 If/Else
 If the part is detected, move it to the drop point. Else, insert a popup to warn the user that there is no part.
- Move to Drop point and Gripper Open

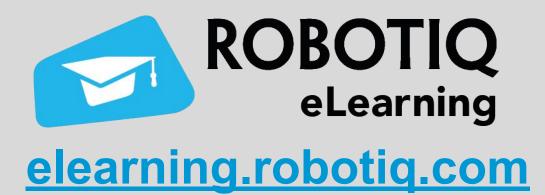
 Move to the final drop point and open the gripper to drop the part.

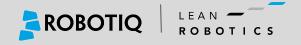






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Ask your Questions!



