

Using ChatGPT to Generate Robot Programs with Natural Language

The work that the operator wants the robot to perform is entered in ChatGPT to generate a robot program. In the near future, beginners with almost no experience in programming may be able to generate advanced programs as long as they know the work to perform.

A robot program can be created by entering instructions as if talking to a person

- <Prompt>
- "First move to the work origin. The origin is P1."
- "Next, move to the location immediately before the work. The location is P2."
- "Next, move to the work location. The location is P3."
- "At the work location, close the hand to grip the workpiece. Enable 1064 to close the hand."
- "Finally, return to the work location."

Create a program that meets the above conditions.



Organize the design specifications and generate the program

Because a program can be created in line with a workflow simply by entering a disorderly set of requirements, this dramatically reduces the work required for adding/correcting the program.

<Prompt (editing)>

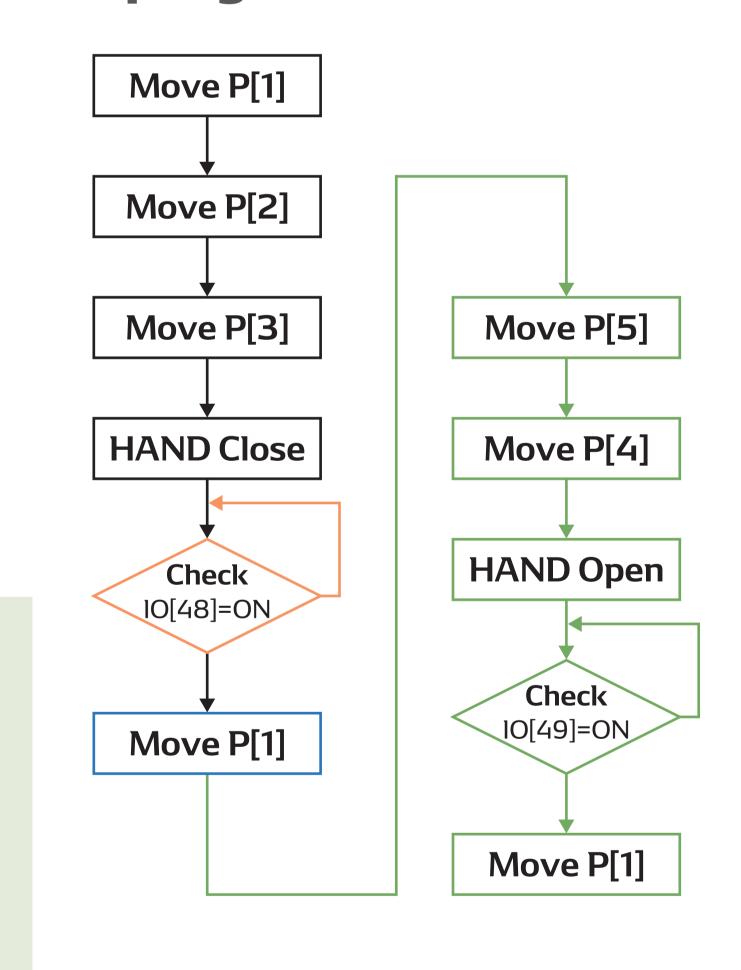
"Correct the final move destination to be the work origin."

<Prompt (setting conditions)>

"When closing the hand, confirm that the hand has been closed. < To check whether the hand has closed, wait until IO48 is enabled."

<Prompt (adding work)>

- "To open the hand, disable 1064 and enable 1065.
- To check whether the hand has opened, wait until IO49 is enabled."
- "Add a program that moves in the same way from the work origin to the workpiece storage space, opens the hand, then returns to the work origin.
- The workpiece storage location is P4, and the position immediately before the workpiece storage location is P5."



System configuration

