Robotics Learning Series

Number taking machine



Developed by Joinmax, this programmable building-block robot kit includes sound-sensitivity, color, touch, photoelectric, ultrasonic and camera sensors, colored lights, and modular parts. Students can design varied robots and use graphical programming software for hands-on creation.

Learning Target

01

Knowledge goal

Understand the related knowledge of color sensors and how to use color sensors.

02

Ability goal

Familiar with the use of color sensor module, master the basic operation of variables.

03

Emotional attitudes and values

Learn to think in essence

Learning Target

01

Learning focus

Master the basic usage of color sensor.

02

Learning difficulties

Flexible application of knowledge of variables and their operations.

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Course Introduction



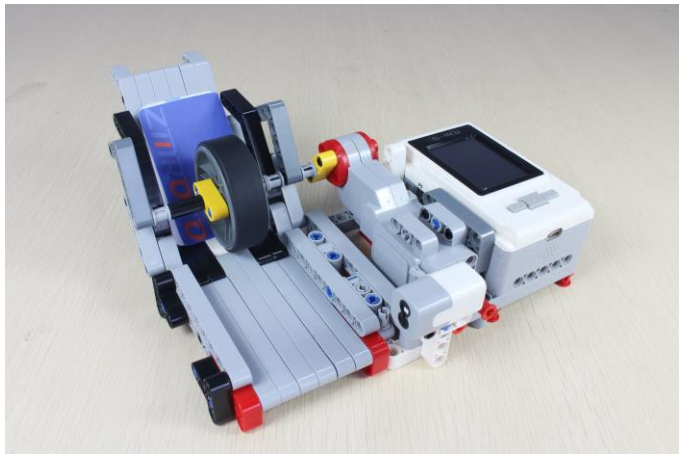
Course Introduction



Have you ever waited in a long line?

Card machine is short for queuing number taking machine, for a long time, people in banks, hospitals, telecommunications, tax, industry and commerce and other business halls crowded to stand in line, sometimes a station is more than an hour. In order to improve the quality of service and establish a good image, it has become an urgent problem to solve the tired queuing phenomenon and create a humanized service environment.

Course Introduction



Card machine

Card machine

The robot in this lesson is called "card machine". A little different from the number machine, we only choose the number machine "automatic number" function to produce. We'll also look at some ideas about automation and think about how what we learn affects our lives. Here we learn together.

Teaching New Knowledge



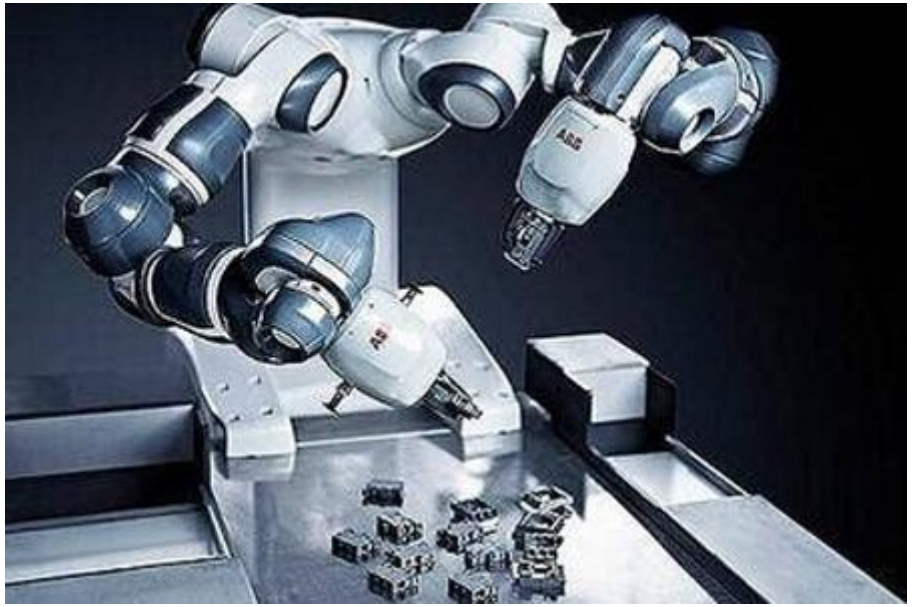
Teaching New Knowledge

Automation: refers to the development of a system to replace people or assist people to complete the specific tasks in human production, life and management activities, reduce and alleviate, people's physical and mental work, improve work efficiency, benefits and effects.



Teaching New Knowledge

Application: Automation technology is widely used in industry, agriculture, military, scientific research, transportation, business, medical, service and family.



Teaching New Knowledge

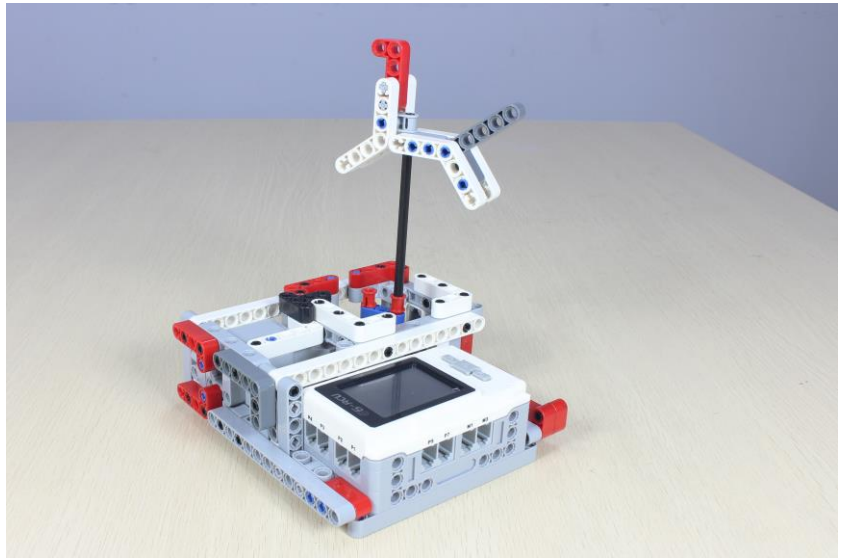
Significance: the use of automation technology can not only liberate people from heavy physical labor, part of mental labor and harsh and dangerous working environment, but also expand the human organ function, greatly improve labor productivity, enhance human understanding of the world and the ability to transform the world. Therefore, automation is an important condition and a significant symbol of the modernization of industry, agriculture, national defense and science and technology.



Design Assembly



Design Assembly



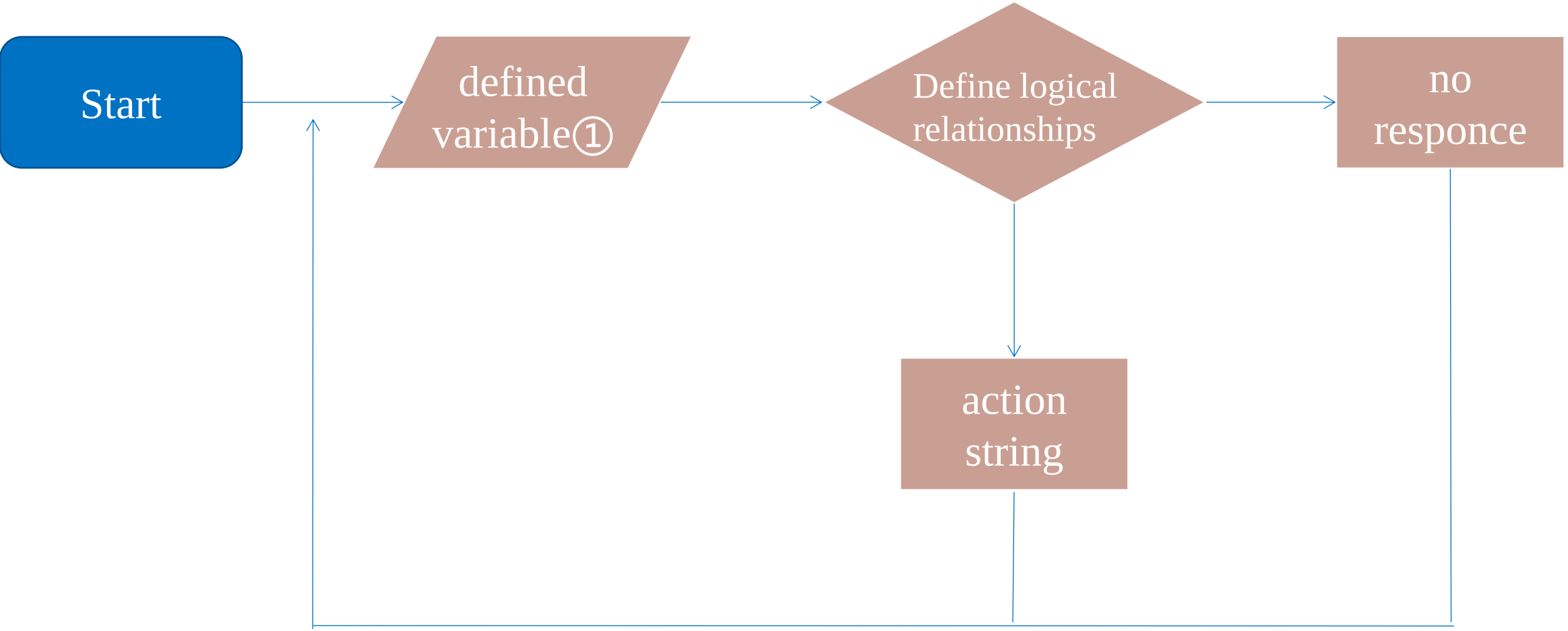
Assembly requirements

1. stable structure
2. focus is right
3. shape match

Programming and Debugging

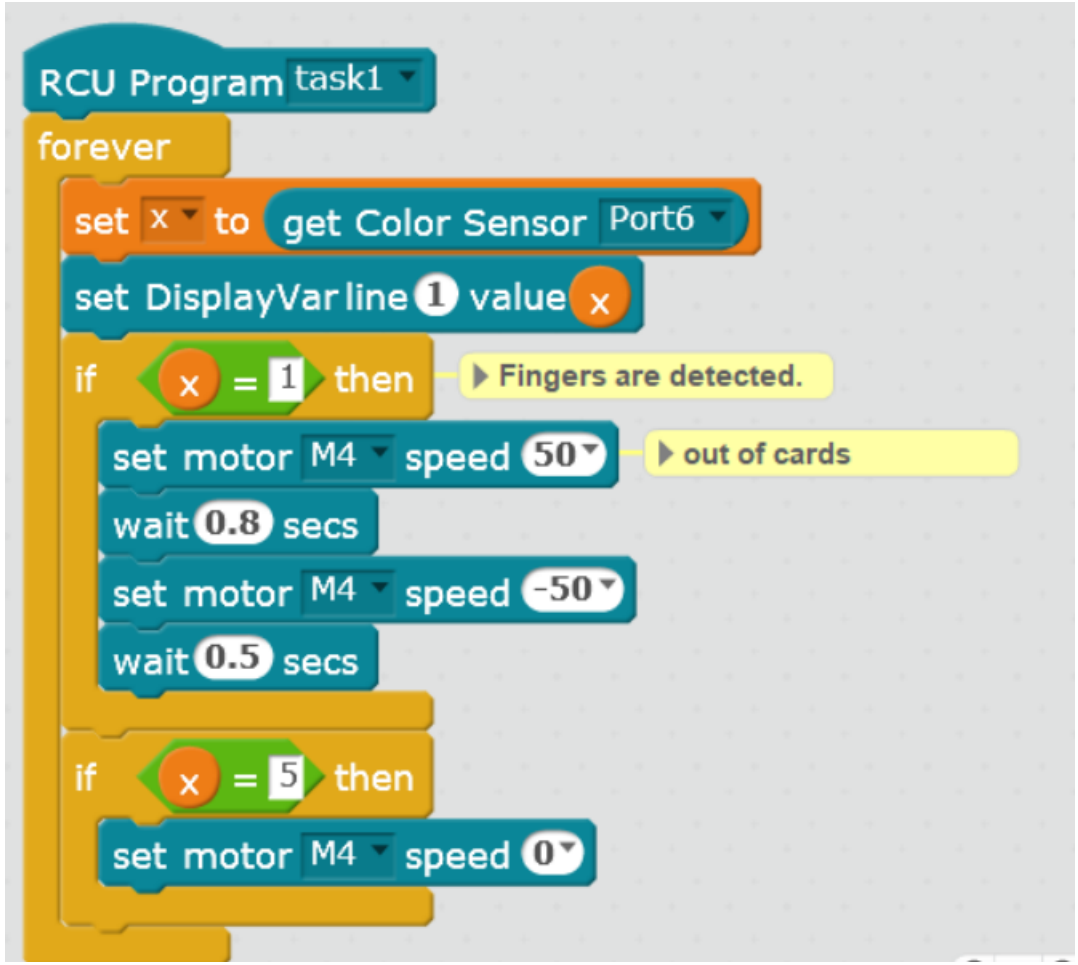


Programming and Debugging



Programming and Debugging

1. Complete the card machine programming task according to the card machine transmission speed and transmission quantity



Checking Effect



Test Effect



Review the learning content and deepen your impression.

Question 1

What is the name of the robot made today?

Question 2

What hardware do today's robots use?

Question 3

Do you know what effect automation will have on our lives?

Thank you for watching

