How to Make a Humanoid Robot

Kit required: Avishkaar Robotronics FULL

Step: 1

Take a long rectangular plate, a long U, a motor, a wheel & a caster wheel & make a structure as shown in image.

Step: 2

Make one more structure like the previous structure and add both with the help of a short rectangular plate as shown in image to create the base of the Humanoid.

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Step: 3

Now take four short L and add these all on the base. These will act like the legs of your Humanoid.

Step: 4

Take a Long rectangular plate & fix it over the 4 short Ls
Step: 5

Take 1 short rectangular plate & 1 L Angle. Add both as in image below. Make 2 such structures.

Step: 6

Now add both these structures over the long rectangular plate.
Step: 7

Take 1 short U, 1 big round gear, 1 square plate & 3 hole connector and make an assembly as shown below.

Step: 8

Take 1 motor, 1 short rectangle plate and 1 mini gear. Fix the motor to the square plate with axle lock using fillers & mini gear.

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Step: 9

Add the pieces made in Step 7 and Step 8 with one another as shown in image. This will act as 1 arm of your Humanoid. Make 1 more arm in similar way.

Step: 10

Now add both arms to both sides of a Long L & the shoulders of your Humanoid are ready!

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Step: 11

Fix the shoulders to the base structure and you will find that your robot has started looking like a Humanoid.

Step: 12

Let's make the head of the Humanoid! Add 1 L angle, 1 square plate and 1 short rectangular plate as shown in the image below.

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Step: 13

Take 2 flexible strip, bend them & connect them with a short U as shown in the image.

Step: 14

Fix the structure made in Step 13 behind the head (made in Step 12). Make the eyes & mouth with help of 2 small gears & 2 rack gears. You can fix the gears with help of 3 inch axle shaft as shown in the image.

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Step: 15

Now attach a Long L to the back of the head of robot with the short U.

Step: 16

Now mount that head over the body as shown in image & fix it with Nuts & Bolts.

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Step: 17

Attach the FULL Brain & connect motors with the brain & your humanoid is ready to run on your indication.

Your Robot is ready!

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