Humanoid Robot Walking Algorithm

1. First, set all servo motors to 90 degrees so the robot stands straight and balanced.

2. Then, shift the robot's body weight a little bit to the side opposite to the leg that will move.
For example, if the right leg will lift, tilt the body slightly to the left by moving the hip servo on that side.

3. Next, lift the leg by bending the knee and ankle servos, and move it forward by rotating the hip servo.
Make sure the movement is smooth so the robot doesn't lose balance.

4. Finally, put the foot down firmly on the ground, straighten the knee and ankle, and move the body weight onto that foot
Then get ready to repeat the same steps with the other leg.