

USEFUL API &

① `sim.getObject('path/alias')`

- To use any object of the scene, you first need to access it through code. this API will help in doing so.
- This will return what we call object handle.
- Ex - `motor = sim.getObject('Motor-C')`

② `sim.getJointVelocity(joint-handle)`

- In the pendulum, you may want to retrieve angular velocity, use this API.
- Ex - `alpha-dot = sim.getJointVelocity(motor)`

③ `sim.getJointPosition(joint-handle)`

- This will return angle → rad or deg (check yourself → just print values)
- Ex - `alpha = sim.getJointPosition(motor)`

④ `sim.setJointTargetVelocity(joint-handle, velocity)`

- Ex - `sim.setJointTargetVelocity(motor, 1)`

⑤ `sim.setJointTargetForce(joint-handle, force-value)`

- This will provide torque to joint (i.e., here force-value is actually torque)
- Ex - `sim.setJointTargetForce(motor, U)` [U → input torque]

FOR MORE INFO → Refer API Reference of Coppelsim