

Lesson 3 Video Series Script and Artwork Brief

Input and Decisions

This video set should match the existing whiteboard-tech style while helping students see if else as a simple yes or no checkpoint.

Recommended Video Set

Video	Length	Purpose
1 Terminal Input	5 to 7 min	Show cin and explain how a program receives typed information.
2 If Else Decisions	8 to 10 min	Build the battery check and test both branches.
3 Comparison Operators	4 to 6 min	Practice >=, <, ==, and != with simple examples.
4 Lesson 3 Skill Check	6 to 8 min	Build the robot readiness checker with two inputs.

Master Artwork Prompt

Clean high-resolution educational whiteboard illustration for a beginner robotics C++ course, bright white background, bold black marker lines, teal and electric blue accents, small orange highlights, laptop terminal asking for battery percent, simple decision fork diagram, robot pit checklist, controller board and wires, polished hand-drawn classroom style, spacious 16 by 9 composition, no readable text, no logos.

Scene Plan

Time	On Screen	Narration
0:00	Title card: Input and Decisions	Today the program will ask for information and choose what to do next.
0:20	Terminal input arrow into program	cin lets us read a value typed by the user.
0:45	Battery percent checkpoint	A condition is a true or false question.
1:15	if branch and else branch	If the condition is true, one block runs. Otherwise, the else block runs.

1:50	Testing table	Good programmers test both outcomes, not just the one they expect.
2:20	Robot readiness skill check	Now combine two inputs to decide whether the robot is ready for practice.

Prompt Bank

Use	Prompt
Title card	Whiteboard-tech C++ robotics classroom title card, laptop terminal prompt, decision fork, robot pit checklist, teal and blue accents, no readable text, 16:9.
Input concept	Hand-drawn terminal input flowing into a simple C++ program box, keyboard, robot battery icon, clean whiteboard style, no readable text, 16:9.
Decision concept	Friendly if else decision fork with checkmark path and wrench path, robot practice field hints, teal blue and orange marker accents, no readable text, 16:9.

Video Status

Lesson 3 video: available on this lesson's website page with synchronized captions.

Downloadable transcript: available beside the video on the lesson page.

Classroom use: Play the lesson video, pause for discussion, and then begin the guided student activity.