



The screenshot shows a terminal window with a dark theme. The title bar says "Jul 20 15:55 • mobilearm@mobilearm: ~". The terminal displays a series of log messages from a Python script named "final_testi.py". The script performs a sequence of actions: it detects an object at [0, 30, 0, 70, 60, 45], waits 5s at the location, sends commands to Arduino, and performs a "Pluck-and-place" action. It then asks for a command to take a red box from shelf A. The script also lists obstacles encountered during the movement, showing their positions and the distance traveled to them. There are two distinct sections of logs, likely representing different runs or trials.

```
Detected: X=-0.02m, Y=-0.04m, Z=0.18m
Sent to Arduino: [0, 30, 0, 70, 60, 45]
Sent to Arduino: [0, 112, 45, 70, 90, 45]
Waiting 5s at object location...
Sent to Arduino: [0, 112, 45, 70, 90, 1]
Sent to Arduino: [0, 30, 0, 70, 60, 1]
Pluck-and-place done
mobilearm@mobilearm:~ $ python3 final_testi.py
^CTraceback (most recent call last):
  File "/home/mobilearm/final_testi.py", line 11, in <module>
    time.sleep(2)
KeyboardInterrupt

mobilearm@mobilearm:~ $ python3 final_testi.py
Sent to Arduino: [0, 30, 0, 70, 60, 1]
Input node (voice/text): text
Enter your command (e.g., 'take red box from shelf A'): shelf a
You entered: shelf a

Target Shelf: 50 cm
Obstacle: 217.22 cm | Traveled: 5.59 cm
Obstacle: 196.64 cm | Traveled: 11.75 cm
Obstacle: 184.45 cm | Traveled: 17.68 cm
Obstacle: 176.62 cm | Traveled: 23.72 cm
Obstacle: 170.18 cm | Traveled: 29.15 cm
Obstacle: 157.06 cm | Traveled: 35.42 cm
Obstacle: 154.61 cm | Traveled: 41.4 cm
Obstacle: 141.65 cm | Traveled: 47.38 cm
Obstacle: 128.63 cm | Traveled: 53.23 cm
Reached shelf at 50 cm
WARN:0@28.4691 global: ./modules/videopin/src/cap_gstreamer.cpp (1405) open OpenCV | GStreamer warning: Cannot query video position: status=0, value=-1, duration=-1
Looking for marker ID: 3 (Press 'q' to quit)
Detected: X=-0.01m, Y=-0.01m, Z=0.12m
Sent to Arduino: [0, 30, 0, 70, 60, 45]
Sent to Arduino: [0, 82, 3, 70, 90, 45]
Waiting 5s at object location...
Sent to Arduino: [0, 82, 3, 70, 90, 1]
Sent to Arduino: [0, 30, 0, 70, 60, 1]
Pluck-and-place done
mobilearm@mobilearm:~ $ python3 final_testi.py
Sent to Arduino: [0, 30, 0, 70, 60, 1]
Input node (voice/text): text
Enter your command (e.g., 'take red box from shelf A'): shelf a
You entered: shelf a

Target Shelf: 50 cm
Obstacle: 266.64 cm | Traveled: 5.57 cm
Obstacle: 267.64 cm | Traveled: 11.7 cm
Obstacle: 267.5 cm | Traveled: 17.84 cm
Obstacle: 267.08 cm | Traveled: 23.97 cm
Obstacle: 268.32 cm | Traveled: 36.11 cm
Obstacle: 267.51 cm | Traveled: 36.25 cm
Obstacle: 266.64 cm | Traveled: 42.38 cm
Obstacle: 266.63 cm | Traveled: 48.52 cm
```