



```

        break;
    default:
        printf("%s\n", esp_err_to_name(res));
    }
}

vTaskDelay(pdMS_TO_TICKS(500));
}
}

void app_main()
{
    xTaskCreate(ultrasonic_test, "ultrasonic_test", configMINIMAL_STACK_SIZE * 3, NULL,
5, NULL);
}

```

## Output:

The screenshot displays the Wokwi IDE interface. On the left, the C++ code for the ESP32 is shown, including headers for stdio, stdbool, FreeRTOS, and the ultrasonic library. It defines pins for the sensor and implements a task that measures distance and prints it. On the right, the simulation shows the ESP32 board connected to the HC-SR04 sensor. The output window displays the following distance readings:

```

Distance: 4.0564 m
Distance: 4.0564 m
Distance: 4.0564 m
Distance: 4.0566 m
Distance: 4.0566 m
Distance: 4.0566 m
Distance: 1.5617 m
Distance: 1.5616 m

```