

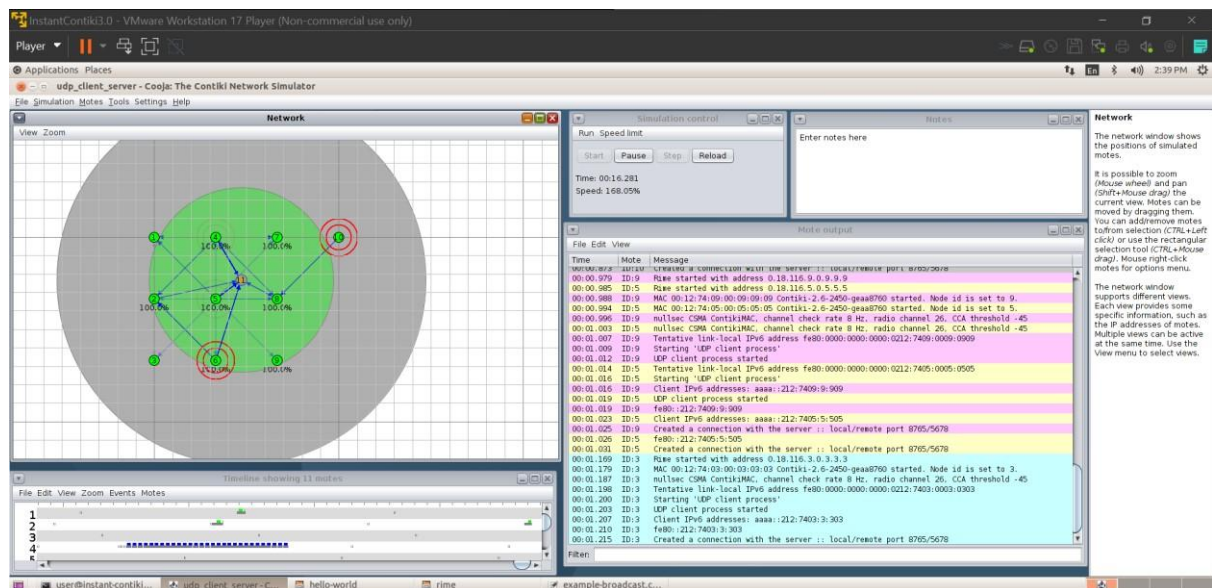
# **Developing Next-Gen IoT Solutions with Contiki OS and Cooja Simulator 2024**

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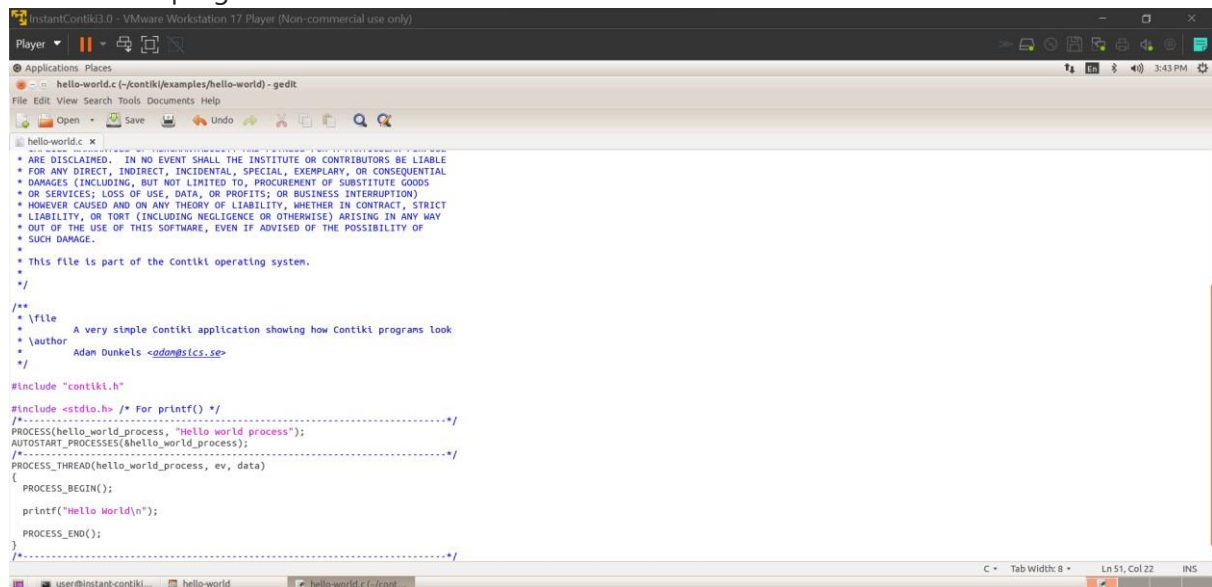
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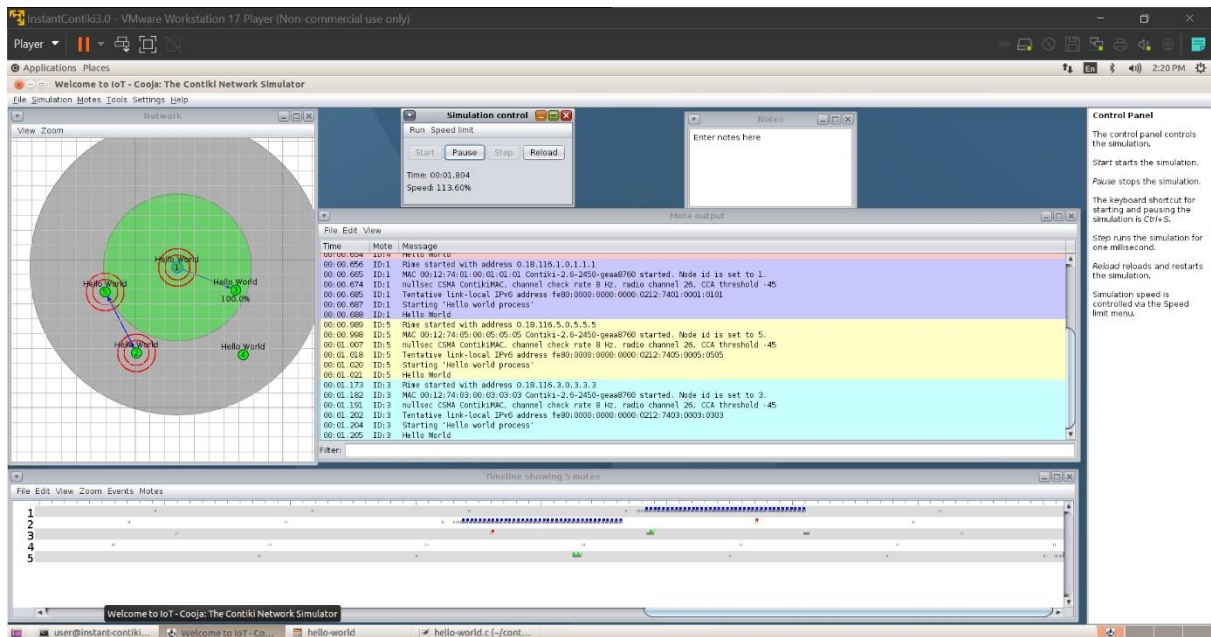
LAB 1

## 1. Client-Server Program

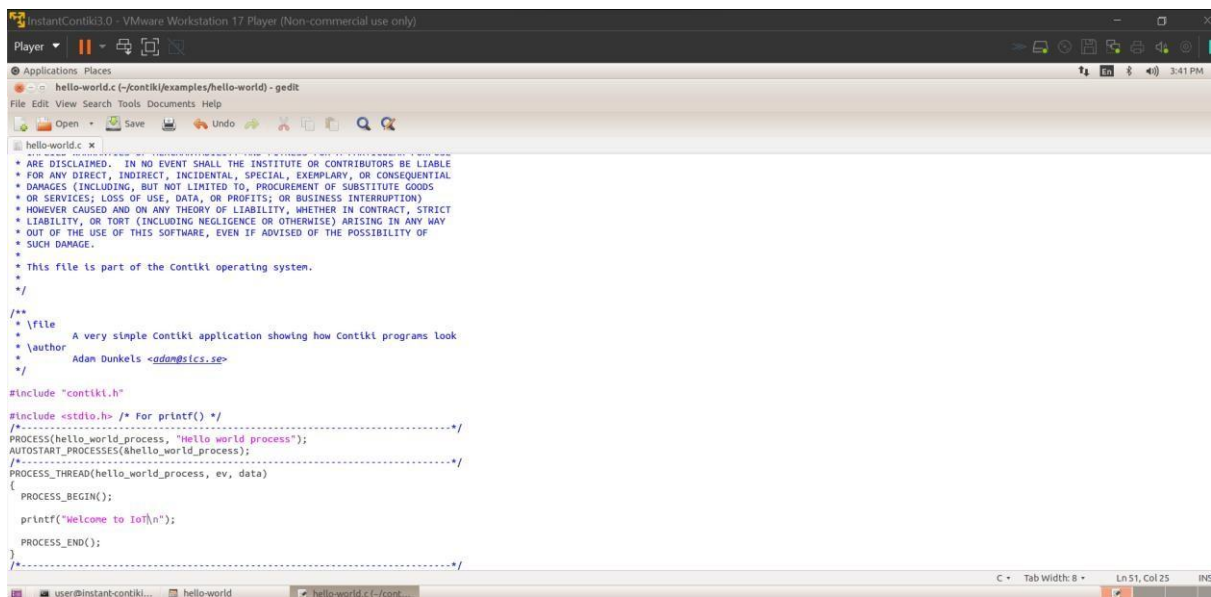


## 2. Hello world program





### 3.Modifying Hello-World.c





```
InstantContiki3.0 - VMware Workstation 17 Player (Non-commercial use only)
Player
Applications Places
example-broadcast.c (~/contiki/examples/rime) - gedit
File Edit View Search Tools Documents Help
Open Save Undo Cut Copy Paste Find
example-broadcast.c x
AUTOSTART_PROCESSES(&example_broadcast_process);
/*-----*/
static void
broadcast_rcv(struct broadcast_conn *c, const linkaddr_t *from)
{
    printf("broadcast message received from %d.%d: '%s'\n",
        from->u8[0], from->u8[1], (char *)packetbuf_dataptr());
}
static const struct broadcast_callbacks broadcast_call = {broadcast_rcv};
static struct broadcast_conn broadcast;
/*-----*/
PROCESS_THREAD(example_broadcast_process, ev, data)
{
    static struct etimer et;

    PROCESS_EXITHANDLER(broadcast_close(&broadcast));

    PROCESS_BEGIN();

    broadcast_open(&broadcast, 129, &broadcast_call);

    while(1) {

        /* Delay 2-4 seconds */
        etimer_set(&et, CLOCK_SECOND * 2 + random_rand() % (CLOCK_SECOND * 2));

        PROCESS_WAIT_EVENT_UNTIL(etimer_expired(&et));

        packetbuf_copyfrom("ATTACK", 7);
        broadcast_send(&broadcast);
        printf("broadcast message sent\n");
    }

    PROCESS_END();
}
/*-----*/
hello-world C Tab Width: 8 Ln 72, Col 13 INS
user@instant-c... broadcast-Co... hello-world rime example-broa...
```

