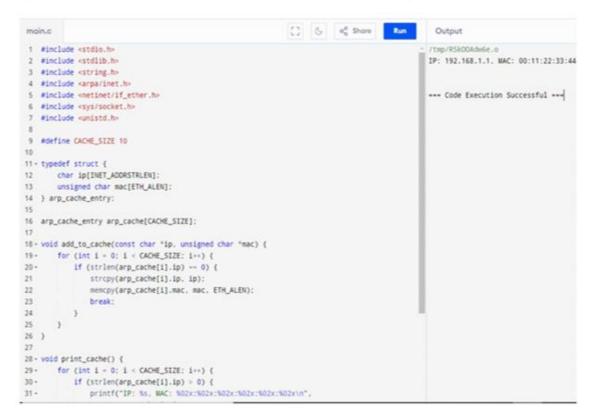
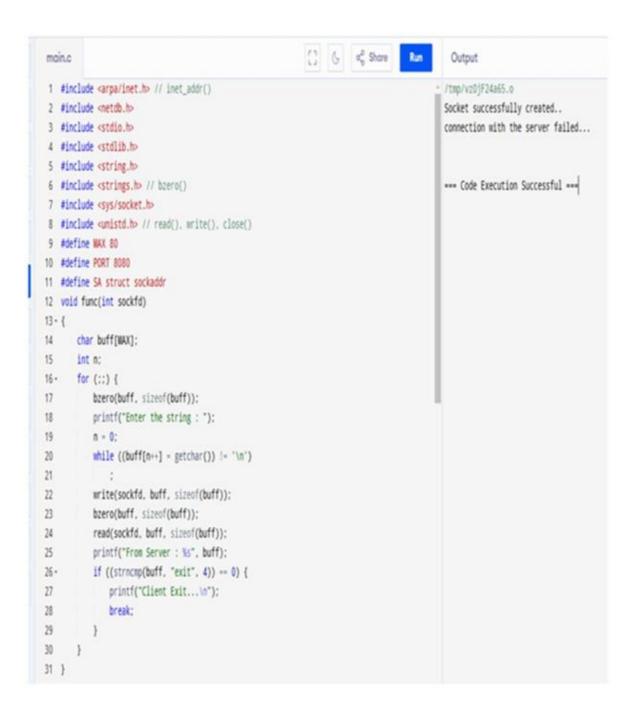
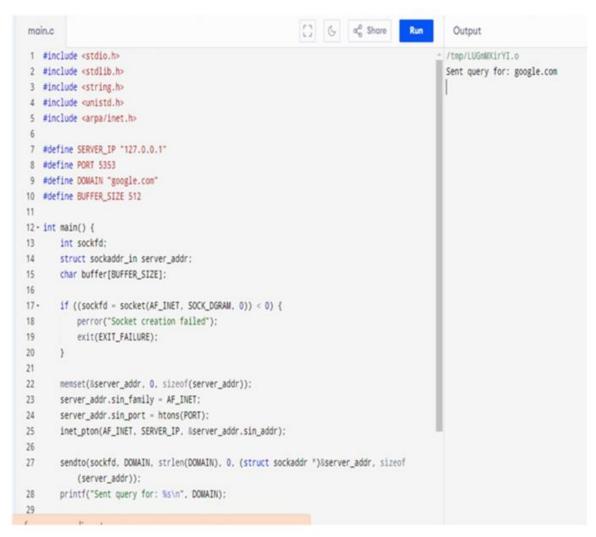


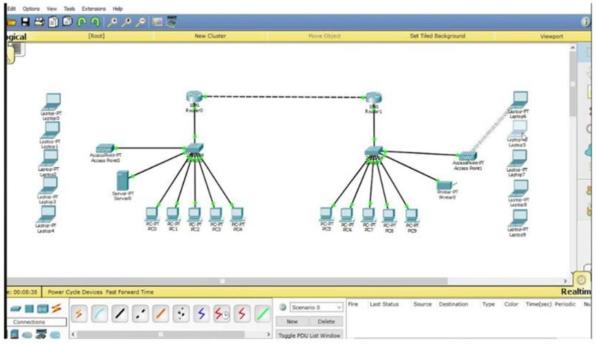
```
C) G of Share Run
                                                                                           Output
main.c
  1 #include <stdio.ho
                                                                                            /tmp/Zdus3enaMN.o
  2 #include <stdlib.ho
                                                                                           Sending packets: 1 2 3 4
  3 #include <stdbool.h>
                                                                                           Acknowledgment received for packets up to 4
                                                                                           Sending packets: 5 6 7 8
  5 #define WINDOW_SIZE 4
                                                                                           Acknowledgment received for packets up to 8
  6 #define TOTAL_PACKETS 10
                                                                                           Sending packets: 9 10
                                                                                           Acknowledgment received for packets up to 10
  8 - void sendPackets(int windowSize) {
      int packetsSent = 0;
 10- while (packetsSent < TOTAL_PACKETS) {
                                                                                           --- Code Execution Successful ---
      printf("Sending packets: "):
 11
       for (int i = 0: i < windowSize && packetsSent < TOTAL_PACKETS: i++) {
 12 -
             printf("kd ", packetsSent + 1);
 13
              packetsSent++:
 15
           printf("\n");
 16
 17
           printf("Acknowledgment received for packets up to %d\n", packetsSent);
 18
 19 }
 20
 21 - int main() {
 22 sendPackets(WINDOW_SIZE);
 23
       return 0:
 24 }
 25
 26
 27
```





```
Output
main.c
                                                ri G at goose
 1 #include <stdio.h>
                                                                          /tmp/OLJRS3Vdad.o
                                                                          ERROR!
 2 #include <string.h>
                                                                          Original Data: Hello, World!
 4 #define POLYNOWIAL 0x07
                                                                          Computed CRC: 0x87
                                                                          Data after error: Iello, World!
 6- unsigned char compute_crc(const char *data) {
                                                                          Error detected in data!
 7 unsigned char crc = 0; // Initial CRC value
 8 size_t len = strlen(data);
 9
                                                                          *** Code Execution Successful ***
 10 - for (size_t i = 0; i < len; i++) {
 13 for (int j = 0; j < 8; j++) {
 14 - if (crc & 0x80) {
 15 crc = (crc << 1) ^ POLYNOWIAL;
 16- } else {
 17 crc <<= 1;
      }
 18
 19 }
 20 }
 21 return crc;
 22 }
 23
 24 - void simulate_error(char *data) {
 25     size_t len = strlen(data);
 26 · if (len > 0) {
 28 }
 29 }
 30
31 · int check_crc(const char *data, unsigned char crc) {
```





```
() (y | a<sub>0</sub> Share Run
main.c
                                                                                           Output
1 #include <stdio.h>
                                                                                          /tmp/Cbx87pyn3c.o
2 #include <stdlib.h>
                                                                                          DNS Server is listening on port 5353
3 #include <string.h>
4 #include <unistd.h>
5 #include <arpa/inet.h>
6 #define PORT 5353
7 #define BUFFER_SIZE 512
8 #define DOWAIN "example.com"
9 #define IP_ADDRESS "93.184.216.34"
10
11 - int main() {
12 int sockfd;
    struct sockaddr_in server_addr, client_addr;
13
14
     socklen_t addr_len = sizeof(client_addr);
15 char buffer[BUFFER_SIZE];
16
    if ((sockfd = socket(AF_INET, SOCK_DGRAM, 0)) < 0) {
17 -
     perror("Socket creation failed");
18
19
         exit(EXIT_FAILURE):
20
     }
21
    memset(&server_addr, 0, sizeof(server_addr));
22
23
    server_addr.sin_family = AF_INET;
24
     server_addr.sin_addr.s_addr = INADDR_ANY;
    server_addr.sin_port = htons(PORT);
25
26
27 · if (bind(sockfd, (const struct sockaddr *)&server_addr, sizeof(server_addr)) < 0) {
28
       perror("Bind failed");
29
        exit(EXIT_FAILURE);
30
31
```

```
[] G of Share Run
                                                                                        Output
main.c
 1 #include <stdio.h>
                                                                                         /tmp/TseKZkR01V.o
 2 #include <stdlib.h>
                                                                                         IP Address: 93.184.215.14
 3 #include <netdb.h>
 4 #include <arpa/inet.h>
                                                                                         === Code Execution Successful ===
 6 - int main() {
 7 char *hostname = "www.example.com";
 8 struct hostent *host_info;
     struct in_addr **address_list;
10
11
      host_info = gethostbyname(hostname);
12
13 -
     if (host_info == NULL) {
        printf("Error: Could not resolve hostname.\n");
14
        return 1:
15
16
17
18
       address_list = (struct in_addr **) host_info->h_addr_list;
19
20
       printf("IP Address: %s\n", inet_ntoa(*address_list[0]));
21
22
     return 0;
23 }
```