NETWORK SECURITY (CS6500) - Tutorial 2b

Sheldon (client) and Leonard (server) are communicating via a telnet connection. Penny as an attacker wants to create a file in Leonard's machine. After many attempts, she gave up the hope of becoming a successful attacker. Your task is to help Penny. You are required to hijack the TCP session, which is continuously sending data from Sheldon's machine to Leonard's machine. After hijacking, you are challenged to create a file into Leonard's machine with your Roll Number as the file name.

You will need 3 machines (client, server and attacker), you may use 2 VMs and one host machine or two machines with a VM in one machine.

Important: You can take the help of sniffer.c and spoof.c, and also modify them if required. It's **strictly not allowed to use Wireshark** for this assignment.

Questions :
1. Describe the attack technique that you have adopted.
2. Write a script to continuously transfer the given text file from Sheldon's machine to Leonard's machine.
3. Write your own code to perform the attack. Write down the challenges you face as well as your analysis.
4. Demonstrate the attack with the help of short screen recording of creating a file in Leonard's machine.

PS: You are also supposed to submit the code along with the detailed report including screenshots.