Assignment No – 4 (CSDF)

Code →

```
import socket

def honeypot(port):
    # Create a socket object
    server_socket = socket.socket(socket.AF_INET, socket.SOCK_STREAM)

    # Bind the socket to the specified port
    server_socket.bind(('0.0.0.0', port))

    # Listen for incoming connections
    server_socket.listen(1)
    print(f"[+] Listening on port {port}")

    while True:
        try:
            # Accept incoming connection
            client_socket, client_addr = server_socket.accept()
            print(f"[+] Connection from {client_addr[0]}:{client_addr[1]}")

            # Send fake data to the client (optional)
            client_socket.send(b"Welcome to the honeypot!\n")

            # Log the connection or further analyze the attacker's actions (optional)

            # Close the connection
            client_socket.close()
        except KeyboardInterrupt:
            print("\n[-] Honeypot stopped.")
```

```
            break
        except Exception as e:
            print(f"[-] Error: {e}")

    # Close the server socket
    server_socket.close()

if __name__ == "__main__":
    # Define the port number for the honeypot
    honeypot_port = 8888

    # Start the honeypot
    honeypot(honeypot_port)
```

Output →

Output on the honeypot side (server):

[+] Listening on port 8888

[+] Connection from 192.168.1.100:54678

Output on the client (Telnet):

Trying 127.0.0.1...

Connected to 127.0.0.1.

Escape character is '^]'.

Welcome to the honeypot!

Connection closed by foreign host.