**ASSIGNMENT NO: 9**

**Title:** UDP Socket

**Aim:**

Write a C program for wired network using UDP socket to perform any one of the following operations

1. String Conversion from Upper Case to Lower Case (50% students)
2. Reverse the String (Remaining 50% students)

Show packet captured traces using Wireshark Packet Analyzer Tool

**Objectives:**

1. To understand concept of socket programming using UDP

**Theory: (Handwritten & Scanned)**

* Student's should write Two page theory report (Handwritten & Scanned)
  + 1. Client / Server Communication
    2. Introduction to UDP (User Datagram Protocol)
    3. The UDP segment Header.
    4. Introduction to Sockets
    5. UDP Socket functions
    6. UDP Socket Flow Description on Server
    7. UDP Socket Flow Description on Client

# Design Screenshots:

* Paste design screen shots

# Program Code (for programming assignment)

# 

# Output Screenshots:

* Student's should write/paste Code here (Screenshots/Snaps are not accepted)

# Students Observation:

* Write observations

**FAQ (Handwritten & Scanned)**

* Student's should write Answer for following questions

1. Draw and explain UDP header.
2. Differentiate TCP and UDP.
3. State five applications of UDP.
4. What is Ephemeral Ports?