# Experiment 6: Socket Programming-I

**Aim:** To use TCP Sockets for Inter Process Communication

**Objective:** After carrying out this experiment, students will be able to:

* Apply TCP Socket programming technique to establish IPC between remote processes
* Analyse the difference between sockets and other enabling techniques for IPC such as Pipes and Message Queues

**Problem statement:** You are required to write programs to implement a TCP based echo server. The functionality of this server is that it should echo any data it receives from a client back to it.

**Analysis:** While analyzing your program, you are required to address the following points:

* How is socket programming different from other techniques for IPC such as Pipes and Message Queues?
* What happens if the number of incoming client requests exceeds the second argument of the listen() function in the server?

**MARKS DISTRIBUTION**

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| --- | --- | --- |
| **Component** | **Maximum Marks** | **Marks Obtained** |
| Preparation of Document | 7 |  |
| Results | 7 |  |
| Viva | 6 |  |
| **Total** | **20** |  |

Submitted by:

Register No:

1. Algorithm/Flowchart
2. Program
3. Results
4. Analysis and Discussions
5. Conclusions
6. Comments
   1. Limitations of the experiment
   2. Limitations of the results obtained
   3. Learning
   4. Recommendations