

National Institute of Technology, Raipur

Department of Computer Science Engineering

B. Tech. 7th Sem – Network Programming Lab

List of Experiments

Exp. No.	EXPERIMENTS
1	Write a Program that parses a given string using StringTokenizer class and list all the tokens (delimiter is white space).
2	Write a program that parses a given string using split method of the String class (delimiter is under_score).
3	Write a program that parses a given string using Scanner class and identifies the number of different primitive data types in the given string like int, double, string etc and lists these separately (delimiter is white space). Example :The String “My name 1 2 3.56 is true John” has 4 strings, 2 integer, 1 double and 1 boolean.
4	Use Scanner class to get input from console. Sequentially prompt the user to enter his name, roll_number and cgpa and store these values in a string, int and double variables respectively.
5	Parse the content of a file (in.txt) using StringTokenizer class (delimiter is white space).
6	Parse the content of a file (in.txt) using Scanner class and identify the number of token in the file and the frequency of different data types of tokens.
7	A file data.txt has a list of various web URLs (separated by whitespace). Identify the number of these URLs and for each URL identify the query string. Also find various parameter (fields) in the query string and their values. Implement this program using StringTokenizer class.
8	A file data.txt has a list of various web URLs (separated by whitespace). Identify the number of these URLs and for each URL identify the query string. Also find various parameter (fields) in the query string and their values. Implement this program using Split method of Scanner Class.
9	Write the program that asks the user to input a regular expression and a test string and report all the substring of the test string matching the given regular expression along with indices.
10	Write a program that asks the user to input a string, a pattern string and a replacement string. Replace all the matching pattern string with replacement String.
11	Write programs for TCP implementation of a simple echo client-server pair
12	Write programs for TCP implementation of a simple calculator server. Also write client code.
13	Write programs for UDP implementation of a simple echo client-server pair.
14	Write programs for UDP implementation of arithmetic calculator client-server pair.
15	Write server side code for TCP Multi-Threaded Arithmetic Calculator service (that can handle multiple clients).
16	Write server side code for UDP Multi-Threaded Arithmetic Calculator service (that can handle multiple clients).
17	Write TCP implementation of multi-threaded Date-Time Service (Client connects to server and requests date and server replies with current date and time). The program should be able to handle multiple clients.
18	Write UDP implementation of multi-threaded Date-Time Service (Client connects to server and requests date and server replies with current date and time). The program

	should be able to handle multiple clients.
19	Given a URL, get various parameters like protocol, host name, port, query string, reference etc using URL class.
20	Given a URL, read from URL and show the HTML output in terminal. Now read from this URL again and save the output in a local HTML file .Open the File and see its content.
21	Write TCP implementation of a multi-threaded File Server.(The server sends a file named “Project.pdf”) to every client that connects to it.
22	Write an RMI Server-Client pair where the server provides a calculator facility. The remote interface on server side has methods for addition, subtraction, multiplication and division of two numbers. The Servers implements the interface and provides definitions of these methods. The clients calls these methods remotely.
23	Write programs for TCP implementation of a simple echo client-server pair using Unix socket programming.
24	Write TCP implementation of a multi-threaded Date-Time service using UNIX socket programming.
25	Write UDP implementation of a multi-threaded Date-Time service using UNIX socket programming.