**United College of Engineering & Research, Prayagraj**

**Department of Computer Science and Engineering**

**Web Technology Lab Assignment (KCS-652)**

**B. Tech Computer Science and Engineering (VI-Semester)**

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| **No.** | **Program** |
| 1 | Write a program in java to take input from user by using all the following methods:   * Command Line Arguments * DataInputStream Class * BufferedReader Class * Scanner Class * Console Class |
| 2 | Write a program in java which creates the variable size array (Jagged Array) and print all the values using loop statement.  1  2  4  3  5  6  7  8  9  10  11  12  13  14  15 |
| 3 | Write a program in java to implement the following types of inheritance:   * Single Inheritance * Multilevel Inheritance * Hierarchical Inheritance * Hybrid Inheritance |
| 4 | Create a package named “*Mathematics*” and add a class “*Matrix”* with methods to add and subtract matrices (2x2). Write a Java program importing the Mathematics package and use the classes defined in it. |
| 5 | Write a program in java to implement constructor chaining and constructor overloading. |
| 6 | “Java does not support multiple inheritance but we can achieve it by interface”. Write a program to justify the above statement. |
| 7 | Write a program in java to demonstrate that finally block is always executed whether exception occurred or not. |
| 8 | Write a program in java which creates two threads, “*Even*” thread and “*Odd*” thread and print the even no using Even Thread and odd no using Odd Thread. |
| 9 | Write a program in java which takes a name of a person as an input from the user implement the followings:   * Find the length of the string (excluding the whitespaces). * Create the abbreviation of the name (For eg. “*Arun Kumar Maurya*” will be displayed as “*A.K.M.*”). * Swap the case of all input characters (For eg. “*AruN KuMar MauRya*” will be displayed as “*aRUn kUmAR mAUrYA*”) |
| 10 | Write a HTML program to display your complete class time table. |
| 11 | Write a HTML program to display the given list.   * Fruit   + Bananas   + Apples     - Green     - Red   + Pears * Vegetables * Meat |
| 12 | Write a HTML program to divide your web page using frames   |  |  |  | | --- | --- | --- | | **Frame1**  Contents of Frame 1 | **Frame3**  Contents of Frame 3 | **Frame4**  Contents of Frame 4 | | **Frame2**  Contents of Frame 2 | |
| 13 | Write an HTML code to demonstrate the usage of inline CSS, internal CSS, external CSS and imported CSS. |
| 14 | Write programs using Java script for Web Page to display browsers information. |
| 15 | Write a Java script to validate Name, Mobile Number, Email Id and Password.   * Name must contain alphabets and whitespace only * Mobile number must be 10 digits only. * Email Id must have one “*@*”, and domain name is “*united.ac.in*” (For eg. faculty@united.ac.in) * Password must have atleast one aplhabet, one digit and one special character (!@#$%&\*) |
| 16 | Writing program in XML for creation of DTD, which specifies set of rules. Create a style sheet in CSS/ XSL & display the document in internet explorer. |
| 17 | Write a program to implement Math server using TCP socket and also write a client program to send user input to Math server and display response as the square of the given number. |
| 18 | Write a program to illustrate CURD operations using JDBC connectivity with MySQL database. |
| 19 | Write a SQL query to create and call the stored procedures with following specifications:   * Procedure without parameter and no return type * Procedure with parameter and no return type * Procedure with parameter and with return type |
| 20 | Write a program to illustrate CURD operations using JSP connectivity with MySQL database on Apache Tomcat web server. |