

**S.S. BE – III (CSE)**  
**Advanced Java Technologies**  
**Assignment**

**Assignment 1**

1. Write a Java Program to create a Book class. Get all the values of attributes of a several books through an input screen (Use AWT or Swings, EventHandling for cursor movement & validations. The User Interface should be independent of the backend datastore i.e. file or DB). Save the data to a file, Books.dat. After saving all the records, close the file. Reopen the same data file, read it & display the list of all books, on screen (One should be able to scroll through all the list of records). The Book class should contain details related to bookId, bookName, authorNames, publication, dateOfPublication, priceOfBook, totalQuantityToOrder, totalCost
2. Query a record on the basis of bookid or bookname or authorname or publication should be possible. The data be retrieved from the Books.dat file and displayed in GUI. Also update the records. Deletion of any book record should also be possible.

**Assignment 2**

1. Connect to the database & create a Book table
2. Perform the operations of insertion, updation, deletion & query on Book table.
3. Write a PL/SQL code to perform the changes in price of books. For books with price above Rs. 500, increase the price by 10%.

For books with price below Rs. 500, increase the price by 5%.

**Assignment 3**

1. Write a TCP based program to read a file from another machine.
2. Write a UDP based program to read a file from another machine.
2. Take an input from a keyboard, write to a file, copy that file on several machines. Open a file on single specified machine, update its contents & show the changed file on your machine.
3. Write a Java program to open and read a file on local machine. Encrypt that file and transmit to another machine. At the receiving end, the file should be opened and read again, after decrypting the data.
4. Write a Java program to implement EchoServer
5. Write a Java program to implement ChatServer
6. Write a Java program to implement ProxyServer

**Assignment 4**

1. Write an RMI based program to read a file from another machine.

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2. Write an RMI based program to send the request to a remote function, to fetch a record from the Book database for a particular book and the send the result to the requesting client.
  
3. Write an RMI based program to get the information about the Operating System version, total size & available size of hard disk, total size of memory & memory in use of a remote machine.

**Assignment 5**

1. Write a Servlet program to get current time of server machine.
2. Write a Servlet to send the bookid from client, fetch the book details from server and display the results on client.
3. Write a Servlet program (Use Filters) to allow or disallow the user based on the security policies to fetch the data from database and display the contents accordingly.
4. Write a Servlet program to create and use Session Handling for the user login. Session Handling should be implemented using Cookies and HttpSession both.

/\* Please Keep on checking this file regularly. More Assignments will be added to this file.  
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