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| **Sr. No.** | **Title** |
| **Module 3** | |
| 1 | Write a program to read file, encrypt it (encryption key is +3), and store encrypted data to another file.(Use FileInputStream/OutputStream). |
| 2 | Write a program, which reads encrypted file generated in 1st program, decrypt it, print it to the console.(Use FileInputStream). |
| 3 | Write a program to Copy the data of a file, file name provided from command line argument, to another file.(Use Buffered I/O Stream). |
| 4 | Write a ProductManagement program, which will store 5 objects of Product class to a file name “ProductDetails.dat”.(Use ObjectOutputStream) |
| 5 | Write a program, Which will read file “ProductDetails.dat” (created by above program).Print the details of the object having highest price and lowest price. (Use ObjectInputStream). |
| 6 | Write a program which will read a text file and print the count of total number of Lines, Words and Characters in it. (Use BufferedReader). |
| 7 | Write a program to read a text file and copy it’s content in uppercase form to another file.(Use BufferedWriter\Reader). |
| 8 | Write a program to copy content of a file while removing duplicates lines. |
| 9 | Write an Exception handling program, which will handle RuntimeException, ArrayIndexOutOfBoundsException, NumberFormatException, ArithmeticException, NullPointerException.(Use Multiple catch with single try block). |
| 10 | Write a program, to demonstrate nested try-catch-finally structure |
| 11 | Write a program, to create and handle user defined Unchecked Exception – InvalidBoxException which will be thrown from the constructor of the Box class, when either length or width or height of Box is less than zero. |
| 12 | Write a program to create and handle User Defined CheckedException – InsufficientFundsException, generated while withdrawing amount more than available balance.Create necessary class and methods to support this scenario. |
| 13 | Write a program to create an ArrayList of Products. Traverse the list and print it to the console. Provide a searching of product on name basis using contains() method of List. |
| 14 | Write a program, to create a TreeSet of Products.Traverse it and provide ordering on base of id. |
| 15 | Write a program to create a TreeSet of Products. Traverse it and provide ordering on basis of name(Use comparator interface). |
| 16 | Write a program to create a HashSet of Products.Demonstrate that no duplicates value are allowed in HashSet. |
| 17 | Write a program to demonstrate Thread creation using Runnable interface. While main thread prints 1 to 50 with 1 millisecond pose and child thread print 1 to 100 using 0.5 millisecond pose. Print the name of child and main thread. Main thread needs to wait for child thread to complete. |