

JAVA Lab Assignment – 3

Question 1

Accept username, password and confirm password and perform the following

- Check if the username and password is empty
- Password should be minimum 8 characters in length
- Check if the password contains the username
- Check if the password matches the confirm password

Question 2

- Read an array of 5 registration numbers that are Strings. Do not accept the registration numbers of students who are not from BEC branch. After reading in 5 registration numbers display the sorted registration numbers to the user

Question 3

- Reverse every word in a string and display the result to the user.(If Input is satish teaches Java then output should be hsitas sehcaet avaJ)

Question 4

- Count the number of times every word occurs in a given sentence

Question 5

- Count the number of vowels that is present in a string

Question 6

- Read a string and represent that in binary. Convert the string to hexadecimal characters and convert the hexadecimal characters to binary.

Question 7

- Read username and password. Check if any three characters of the username in the same order is present in the password. If yes then display weak password to the user. For instance if the user name is test and password is rest. Since three characters est is from the user name is present in the password we should display weak password to the user

Question 8

- Read an array of 5 names from the user. The input name format is Dr.Satish, Dr.Mohan, Dr.Sendhil
- Read search name from the user. The user may enter just the name like Satish,Mohan and Sendhil
- Check if the name entered by the user is present in the array of names
- If the name is found then display "Name Found" or else display "Name not Found"

Question 9

- Identity and implement different classes(Atleast 10 classes) along with its data members and member functions for an University Management System for VIT

Question 10

Create an array of Products objects – 5 product objects minimum. Products have the following attributes

- Product id – String
- Product name – String
- Product serialnumber – Int
- Product Company – String
- Product ManufacturedDate – String 27july2020
- Product Price – int

Demonstrate the following for the array of product objects using Java code

Methods

- Display all products that are manufactured by Samsung
- Display all products manufactured between year 2012 and 2019
- Display the details of all products whose price is greater than 10000
- Display only products that has laptop in their name