



DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Discover. Learn. Empower.

Subject: Project Based Learning in Java

Subject Code: 20CST-319/ 20ITT-319

Semester: 5th **Batch:** 2020

Assignment -2

Last date of Submission: 17 Oct., 2022 **Total Marks:** 10 (2 Questions of 2.5 marks , 1 Question of 5 marks)

***Note: Every student needs to submit assignment as per the allotted set mentioned in attached PDF.**

Set – 1

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| 1. | Create an ArrayList of Employee(id,name,address,sal) objects and search for particular Employee object based on id number. | 2.5 marks |
| 2. | Create a class Employee and implement the below method in the class. Write Junit testcases to test the below given method: <pre>public String findName(ArrayList employees,String name){ String result=""; if(employees.contains(name)){ result="FOUND"; }else{ result="NOT FOUND"; } return result; }</pre> | 2.5 marks |
| 3. | File : Count Character Write a program to count the number of times a character appears in the File. (Case insensitive... 'a' and 'A' are considered to be the same) Sample Output: Enter the file name Input.txt Enter the character to be counted r File 'Input.txt' has 99 instances of letter 'r'. | 5 marks |

Set – 2

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|----|---|-----------|
| 1. | Write a program to store a group of employee names into a HashSet, retrieve the elements one by one using an Iterator. | 2.5 marks |
| 2. | Write a java program that connects to oracle database, queries the inbuilt table “emp” and displays the first two columns (empno using column index and ename using column name) of all the rows. | 2.5 marks |
| 3. | ABC International School wants to computerize students details. The school maintains a database of students in Oracle. The student table contains information related to students and is shown in the following student table structure. Column Name Type Constraint Rollno Number (4) Primary Key StudentName Varchar (20) Not Null Standard Varchar (2) Not Null Date_Of_Birth Date Fees Number (9,2) | 5 marks |

Set – 3

| | | |
|----|--|-----------|
| 1. | Create Collection called TreeSet which is capable of storing String objects. The Collection should have the following capabilities a)Reverse the elements of the Collection b)Iterate the elements of the TreeSet c) Checked if a particular element exists or not | 2.5 marks |
| 2. | File Copy Write a program to copy from one file to another. Sample Input and Output: Enter the input file name Input.txt Enter the output file name Output.txt | 2.5 marks |
| 3. | i) Create the following class and implement the method to check whether given string is a palindrome and return the result, Class Name : MyUnit Method : palindromeCheck(String):boolean (Hint: If the reversed string is equal to the actual string is palindrome string. Ex: madam, mom, dad, malayalam) ii) Create a Junit test class to test the above class. | 5 marks |