

ASSESSMENT-5 (Fiserv)

TOPIC: Java Collections, Multi threading and JDBC

Trainer: Sagar

1. Name:
Email Id:
Batch:1

NA

2. Name:
Email Id:
Batch:2

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3. a) Retrieve the numbers from the below String and keep it in a Integer Array

String str="Hello5FI1Serv9Batch@2Java7";

b) Convert this Integer Array to ArrayList

c) Pass some value '9' on to this ArrayList, if '9' values exists in ArrayList, remove that data from array List. If not presents, Print a message as given element is not found

d) Get a String without Numbers and special characters and preserve the spaces in place of numbers and special characters like below

str= "Hello FI Serv Batch Java"

e) Replace the "Java" word with "Trainees"

str= "Hello FI Serv Batch Trainees"

f) Using HashMap, print the most repeated character the from the above String
(1 Point)

Enter your answer

4. a) Write a Java Program to Print the Length of each character in Ascending Order
String str="java learning is very easy and It is awesome experience" O/P: a-> 6, e -> 9, etc.,

b) Remove the less repeated character from the String and replace the highest repeated character with 'z' character and print the String (1 Point)

Enter your answer

5. Employee table should consist of EmpName, EmpCity, EmpSalary, EmpId.

a) Using JDBC, write a Java program to Insert the 5 sets of employee data into MySQL database dynamically [Use Scanner Class]

b) Using JDBC, find the max salary of employee Name in that table
(1 Point)

Enter your answer

6. Write down the Implementation classes of collection Interface (1 Point)

Enter your answer

7. Write down the Implementation classes of Map Interface
_____ (1 Point)

Enter your answer

8. Write a Sample program to convert the LinkedList to HashSet, Print both the LinkedList and HashSet values (1 Point)

Enter your answer

9. What is the Difference between ArrayList and LinkedList (1 Point)

Enter your answer

10. What is the Difference between List and Set
_____ (1 Point)

Enter your answer

11. What are the differences between Enumerator, Iterator and List Iterator
_____ (1 Point)

Enter your answer

12. Write a Program to implement the missing parts of the below code

```
public class Student {  
  
    private String studentName;  
  
    private int studentClass;  
  
    private String studentSection;  
  
  
    // Initialize all Instance Variables in below constructor  
  
    public Student(String studentName, int studentClass, String studentSection) {  
  
  
    }  
  
  
    public static void main(String[] args) {  
  
        List<Student> school = new ArrayList<>();  
  
    }  
}
```

```
// Add some students to the 'school' list for demonstration (Assume that  
'school' variable has all the students in a given school)
```

```
// Create a sub-list of 'school' with students who belong to class 5 and  
section 'B'
```

```
// Print the filtered students (who belongs to class5 and section B)
```

```
// Getter Methods
```

```
}
```

(1 Point)

Enter your answer

13. Please Implement the Multi Threading program for below requirements

- a) Create '4' classes like Person, Teacher, Student and Employee Classes
- b) Implement the Inheritance --> Extend these '4' classes with Thread Class
- c) Implement public void run() method --> write different logics of all these '4' methods -- try to maintain a huge data and perform some logic
- d) Create a Demo class and write a main thread
- e) Create Objects for all the above '4' classes and call start() method

f) Observe the '5' multiple threads should execute in parallel

(1 Point)

Enter your answer

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