

Java Freshers

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Screening Test

Completed on : 26-Dec-2024 04:03 PM

#	Question	Response	Marks
1	Have you fully completed your education and prepared to work	Yes	1
2	Have you taken any long term training course on Java Technologies	Yes	1
3	Have you recently completed your education and training, and there is no major Gap (more than one year after the education)	Yes	1
4	Are you, willing to work on-premises (there is no work from home)	Yes	1
5	Can you write simple Java Programs on your own	Yes	1
6	Are you, available immediately to join us, if we hire you	Yes	1
7	Did you complete any kind of Developer Certification in Java	Yes	1
8	Do you know how to write unit testcases using Junit	Yes	1
9	if we hire you, will you be prepared to stay and work with us at least for two years	Yes	1
10	Will you be flexible any role in Software Engineering	Yes	1
11	Explain about yourself why you are the right candidate for this Job	Skipped	0

Overall Score : 10/11 (Promoted)

Coding Test

Completed on : 26-Dec-2024 05:24 PM

1. Write a program or method to find the smallest and largest numbers in an array of integers. Implement two methods: `findSmallest(int[] numbers)`: Returns the smallest number in the array. `findLargest(int[] numbers)`: Returns the largest number in the array. Sample Input : If the input array is null or empty, the method should throw an `IllegalArgumentException` with the message "Array cannot be null or empty". Use Java's Stream API to solve the problem. Expected Output : Smallest number: 1 Largest number: 20

Marks Scored : 0

```
public class NumberUtils {

    public static int findSmallest(int[] numbers) {
        int[] numbers={3,2,5,8,10};
        if (numbers == null || numbers.length == 0) {
            throw new IllegalArgumentException("Array cannot be null or empty");
        }

        int smallest=numbers[0];
        for(int i=0;i<=numbers.length-1;i++){

            if(numbers[i]>largest)
                largest=numbers[i];
        }
        return largest; // Placeholder return value
    }
}
```

2. Question: Unique Words Extractor Write a program to extract all unique words from a given text. A word is defined as a sequence of alphanumeric characters separated by non-word characters (e.g., spaces, punctuation). The program should meet the following criteria: Extract words that are at least 8 characters long. Convert all words to lowercase for uniqueness. Preserve the order of their first appearance in the text. Implement the functionality in the `extractUniqueWords` method. The method should return a `Set` containing the filtered words. Sample Input : "The development of artificial intelligence is advancing rapidly. Innovative technologies are shaping the future of the world." Expected Output : Unique words with at least 8 characters: development artificial intelligence advancing innovative technologies

Marks Scored : 0

```
import java.util.*;
import java.util.stream.Collectors;

public class WordProcessor {

    public static Set extractUniqueWords(String content) {
        String[] word=content.split(" ");
        TreeSet set=new TreeSet();
        for(String w: word){
            set.add(w);
        }
    }
}
```

```
}

}
int i=1;
for(Object w:set){
    System.out.println(i+" "+w);
    i++;
    if(w.length>=8)
}
public static void main(String[] args) {
    // Example content for testing
    String content = "The development of artificial intelligence is advancing rapidly. " +
        "Innovative technologies are shaping the future of the world.";

    // Extract unique words with at least 8 characters
    Set uniqueWords = extractUniqueWords(content);

    // Print the unique words
    System.out.println("Unique words with at least 8 characters:");
    uniqueWords.forEach(System.out::println);
}
}
```

3. Question: Write Java Program to use and apply the concept of Design Pattern Singleton with simplest program.
Expected Output: Instance 1: Singleton@15db9742 Instance 2: Singleton@15db9742 Both instances are the same (Singleton verified). Message from Singleton: Hello from Singleton!

Marks Scored : 0

```
public class Singleton {

    // Private static instance of the class
    private static Singleton instance;

    // Private constructor to prevent instantiation
    public String s;
    private Singleton() {
        s="hello i am a string";
    }

    // Public method to provide access to the instance
    public static Singleton getInstance() {
        if(instance==null)
            instance=new Singleton();
        return instance;
    }

    // Example method to demonstrate functionality
    public String getMessage() {
        // Implement your code here
    }
}
```

```
        return s;
    }

    // Main method to test the Singleton functionality
    public static void main(String[] args) {
        Singleton x=Singleton.getMessage();
        Singleton y=Singleton.getMessage();
        Singleton z=Singleton.getMessage();
        System.out.println("x hashCode"+x.hashCode());
        System.out.println("y hashCode"+y.hashCode());
        System.out.println("z hash"+z.hashCode());
        if(x==y && y==z){
            System.out.println("three objects are point to same memory")
        }
        System.out.println("Are both instances the same? ");
    }
}
```

Overall Score : 0/12 (Failed)