

Java Freshers

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Source	Naukari

Screening Test

Completed on : 24-Dec-2024 11:55 AM

#	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	video response	1

Overall Score : 11/11 (Promoted)

Coding Test

Completed on : 25-Dec-2024 12:21 PM

1. Question: Implement an EMI Calculator in Java. The objective is to create a program that calculates the Equated Monthly Installment (EMI) for a given loan. The EMI is calculated based on the principal loan amount, annual rate of interest, and loan tenure. Sample Input : Principal amount: 500000 Annual rate of interest: 7.5 Loan tenure: 20
Expected Output : The calculated EMI is: 3982.71
Marks Scored : 2

```
public class EMI_Calculator {

    // Method to calculate EMI
    public double calculateEMI(double principal, double annualRateOfInterest, int loanTenure) {
        if (principal < 0) {
            throw new IllegalArgumentException("Principal amount cannot be negative");
        }
        if (annualRateOfInterest < 0) {
            throw new IllegalArgumentException("Interest rate cannot be negative");
        }
        if (loanTenure <= 0) {
            throw new ArithmeticException("Loan tenure cannot be zero or negative");
        }

        //implement Your code here
        double emi=0;
        double monRate=annualRateOfInterest/12/100;

        emi=(principal*monRate*Math.pow(1+monRate,loanTenure*12))/(Math.pow(1+monRate,loanTenure*12)-1);
        return emi;
    }

    public static void main(String[] args) {
        EMI_Calculator calculator = new EMI_Calculator();

        // Test data
        double principal = 500000;
        double annualRateOfInterest = 10;
        int loanTenure = 20;

        // Calculate EMI
        try {
            double emi = calculator.calculateEMI(principal, annualRateOfInterest, loanTenure);
            System.out.printf("The EMI for a principal of %.2f, interest rate of %.2f%%, and tenure of %d years is: %.2f%n",
                principal, annualRateOfInterest, loanTenure, emi);
        } catch (Exception e) {
            System.err.println("Error: " + e.getMessage());
        }
    }
}
```

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) {
        content=content.toLowerCase();
        String[] words=content.split("[^a-zA-Z0-9]+");
        Set s=new LinkedHashSet<>();

        for(int i=0;i
        {
            if(words[i].length()>=8)
                s.add(words[i]);
        }
        return s;
    }

    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 : 6

```
public class Singleton {

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

    // Private constructor to prevent instantiation
    private Singleton() {}

    // 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 "Hello from Singleton!";
    }

    // Main method to test the Singleton functionality
    public static void main(String[] args) {
        // Implement your code here
        Singleton s1=Singleton.getInstance();
        System.out.println("Instance 1:\n"+s1);
        Singleton s2=Singleton.getInstance();
        System.out.println("Instance 2: "+s2);
        // Implement your code here
        if(s1==s2){
            System.out.print("Both instances are the same (Singleton verified)");
            System.out.println("Message from Singleton: "+s1.getMessage());
        }
    }
}
```

Overall Score : 8/12 (Promoted)

Interview

Interviewed on : 27-Dec-2024 12:30 PM

Interviewd by : Srinivas Gadepalli

Interview Summary

Personal	3.33
Java Programming	2.5

Java Technology	4.0
Average interview rating	3.28

Question wise rating:

Personal	
what is the Necessity of Job	3
Tell Me About yourself	3
Career Plan	4
Average rating	3.33

Java Programming	
OOPS Implementation	3
Memory management	2
Average rating	2.5

Java Technology	
JVM	4
JDK/JRE	4
Average rating	4.0

Interviewer Remarks:

No Remarks

Interviewer's Feedback:

Interviewer	Decision	Notes
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Srinivas Gadepalli	Hire	I found him good on Java, at least he is able to explain.
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