

Software Developer- Intern (Python / Java)

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Screening Test

Completed on : 04-Apr-2026 03:55 PM

#	Question	Response	Marks
1	Are you proficient in HTML, CSS, JS?	Yes	1
2	Are you proficient in Python?	Yes	1
3	Are you proficient in Java?	Yes	1
4	Did you complete any kind of Developer Certification in HTML, CSS, JS	Yes	1
5	Did you complete any kind of Developer Certification in Python	Yes	1
6	Did you complete any kind of Developer Certification in Java	Yes	1
7*	Would you be open to relocating to Hyderabad?	Yes	1
8*	Have you fully completed your education and prepared to work	Yes	1
9*	Explain about yourself why you are the right candidate for this Job	video response	1
10	Are you open to continuous learning and upskilling in the latest technologies?	Yes	1

Overall Score : 10/10 (Promoted)

Coding Test

Completed on : 05-Apr-2026 01:58 PM

1. Write a Java 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

```
public class NumberUtils {

    public static int findSmallest(int[] numbers) {
        if (numbers == null || numbers.length == 0) {
            throw new IllegalArgumentException("Array cannot be null or empty");
        }
        // Implement the logic here
        int smallest = numbers[0];
        for(int i=1; i
            if(numbers[i] < smallest){
                smallest = numbers[i];
            }
        }
        return smallest; // Placeholder return value
    }

    public static int findLargest(int[] numbers) {
        if (numbers == null || numbers.length == 0) {
            throw new IllegalArgumentException("Array cannot be null or empty");
        }
        // Implement the logic here
        int largest = numbers[0];
        for(int i=1; i
            if(numbers[i] > largest){
                largest = numbers[i];
            }
        }
        return largest; // Placeholder return value
    }
}
```

Marks Scored : 2/2

2. Write a Java program that counts the occurrences of words in a given input string that are of a specified minimum length or longer. The program should return a map of words sorted in descending order of their frequency. If two words have the same frequency, they should be sorted alphabetically in ascending order. Sample Input : Ignore case sensitivity (e.g., "Test" and "test" should be treated as the same word). Words are sequences of alphanumeric characters. Punctuation and other symbols should not be considered part of words. Words shorter than the specified minimum length should be excluded from the count. Expected Output : Words with minimum length 8: exceptional: 2 wonderful: 1

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

public class WordCounter {

    public static Map getWordsWithMinLength(String input, int minLength) {
```

```

if (input == null || input.isEmpty()) {
    return Collections.emptyMap();
}

String[] words = input.split("\\W+");
Map wordCount = new HashMap<>();

for (String word : words) {
    if (word.length() >= minLength) {
        wordCount.put(word, wordCount.getOrDefault(word, 0) + 1);
    }
}

return wordCount.entrySet()
    .stream()
    .sorted((a, b) -> {
        if(!b.getValue().equals(a.getValue())){
            return b.getValue() - a.getValue();
        }
        return a.getKey().compareTo(b.getKey());
    }).collect(Collectors.toMap(
        Map.Entry::getKey,
        Map.Entry::getValue,
        (e1, e2) -> e1,
        LinkedHashMap::new
    ));
//implement your code here
}
}

```

Marks Scored : 4/4

3. Write a Python program to identify and return the smallest and largest number from given series of numbers, Note: Don't to use library functions min and max and sort and sorted in the code, it is expected that you write your own algorithm to identify and return the smallest and largest number, Please return the values in format (smallest,largest), Given array : [56,4,48,2,75,35,45,63,500,8,20,452,324] Example : (2 , 500)

```

class NumberAnalyzer:
    def __init__(self, numbers):
        self.numbers = numbers

    def find_smallest_and_largest(self):
        #implement your code here
        if not self.numbers:
            return (None, None)
        smallest = self.numbers[0]
        largest = self.numbers[0]

        for num in self.numbers:
            if num < smallest :

```

```
        smallest = num
    if num > largest:
        largest = num
    return (smallest, largest)
```

```
# Given array
array = [56, 4, 48, 2, 75, 35, 45, 63, 500, 8, 20, 452, 324]

# Create an instance of NumberAnalyzer
analyzer = NumberAnalyzer(array)

# Find smallest and largest
result = analyzer.find_smallest_and_largest()
print(result)
```

Marks Scored : 5/5

Overall Score : 11/11 (Promoted)