

Coding Questions & Answers: Java, SQL, Angular

Java Coding Questions

Q1. Reverse a string in Java

A:

```
String input = "hello";
```

```
String reversed = new StringBuilder(input).reverse().toString();
```

Q2. Check if a number is prime

A:

```
int num = 7;
```

```
boolean isPrime = IntStream.rangeClosed(2, num / 2).noneMatch(i -> num % i == 0);
```

Q3. Count frequency of characters in a string

A:

```
Map<Character, Integer> map = new HashMap<>();
```

```
for (char c : str.toCharArray()) {
```

```
    map.put(c, map.getOrDefault(c, 0) + 1);
```

```
}
```

SQL Coding Questions

Q1. Find second highest salary

A:

```
SELECT MAX(salary) FROM employees WHERE salary < (SELECT MAX(salary) FROM employees);
```

Q2. Count duplicates in a table

A:

```
SELECT column_name, COUNT(*) FROM table_name GROUP BY column_name HAVING COUNT(*) > 1;
```

Q3. Get employee names and department names (JOIN)

A:

```
SELECT e.name, d.department_name FROM employees e JOIN departments d ON e.dept_id = d.id;
```

Angular Coding Questions

Q1. Create a component using Angular CLI

A:

```
ng generate component my-component
```

Q2. Two-way data binding example

A:

```
<input [(ngModel)]="name">
```

```
<p>{{ name }}</p>
```

Q3. HTTP GET request using HttpClient

A:

```
this.http.get('https://api.example.com/data').subscribe(data => console.log(data));
```