**Problems**

**Logic Based**

1. **Write a program to find the second smallest element in an array.**
2. **Write a program to find all pairs of elements in an array whose sum is equal to a specified number.**

**Example : {2, 7, 4, -5, 11, 5, 20}, 15 (Specified number enter by a user)**

**Output : (4,11) & (-5 ,20)**

1. **Write a simple Java program which will print Fibonacci series, e.g. 1 1 2 3 5 8 13 ... . up to a given number.**
2. **Write a program to check if the given number is Armstrong number or not.**

**Example :**

**Input:**

**153**

**Output:**

**153 is Armstrong number**

**Explanation: 153 = 1 + 125 + 27, which is equal to 1^3+5^3+3^3**

**Task Based**

1. **What are threads and implement race conditions in java.**
2. **Implement bubble sort algorithm.**
3. **Implement a linear search algorithm.**
4. **Implement binary search algorithms.**