Daily Practice Problem Date 8/12/2023

Problem 1: Maximum value of array

```
package ishwarchavan.com;

public class MaximumValueOfString {  //class created

	static int arr[] = {10, 300, 45, 90, 98};
	static int largest() {   // Method to find maximum in arr[]
		int i;

		int max = arr[0];   // Initialize maximum element

		for (i = 1; i < arr.length; i++)    //loop iterating
			if (arr[i] > max)
				max = arr[i];

		return max;
	}
	public static void main(String[] args) {    //main program created
		System.out.println("Largest in given array is " + largest());
 }
}
```

Problem 2: Number of subarrays with lcm equal to k

```
package ishwarchavan.com;

public class NumberOfSubarry {
	public static void main(String[] args){   //main program created
	  int[] nums= { 3, 2, 6, 8, 4 };
	  int K = 6;
	  System.out.print(subarrayLCM(nums, K));    // Function call
    }
    public static int subarrayLCM(int[] nums, int k) {  //function created
        int count = 0;
        for(int i=0; i<nums.length; i++) {   //loop iterating
            int l = nums[i];
            if(l == k)
                count++;  //increment count

            for(int j=i+1; j<nums.length; j++) {  //loop iterating
                l = lcm(l, nums[j]);
                if(l == k)
                  count++;   //increment c
                if(l > k) break;
            }
        }
        return count;   //return count
    }

    static int lcm(int a, int b) {  function created
        try {
                try {
                    return a*b / gcd(a,b);  //retutn this statement
                } catch (Exception e) {
                    e.printStackTrace();
                }
            } catch (Exception e) {
                e.printStackTrace();
            }
            return b;
    }
```

```
    static int gcd(int a, int b) {  //gcd function created
        if(a%b == 0) {
            return b;
        }
        return gcd(b, a%b);     //function return
    }
}
```