1. ReverseAlphabet

```
public class ReverseAlphabet {
  public static void main(String[] args) {
    // ASCII values for uppercase English alphabets
    int start = 'Z';
    int end = 'A';

    System.out.println("Alphabet in reverse order:");

    for (int i = start; i >= end; i--) {
        System.out.print((char) i + " ");
    }
    }
}
```

```
java -cp /tmp/TixJMrQPVi ReverseAlphabet
Alphabet in reverse order:
Z Y X W V U T S R Q P O N M L K J I H G F E D C B A
```

2. FibonacciSeries

```
import java.util.Scanner;
public class FibonacciSeries {
  public static void main(String[] args) {
    Scanner scanner = new Scanner(System.in);
    System.out.print("Enter the number of terms in the Fibonacci series: ");
    int n = scanner.nextInt();
    System.out.println("Fibonacci Series:");
    printFibonacciSeries(n);
    scanner.close();
  }
  private static void printFibonacciSeries(int n) {
    int firstTerm = 0, secondTerm = 1;
    for (int i = 0; i < n; i++) {
      System.out.print(firstTerm + " ");
      int nextTerm = firstTerm + secondTerm;
      firstTerm = secondTerm;
      secondTerm = nextTerm;
    }
  }
}
```

```
java -cp /tmp/TixJMrQPVi FibonacciSeries
Enter the number of terms in the Fibonacci series: 5
Fibonacci Series:
0 1 1 2 3
```

3. LCMandGCD

```
import java.util.Scanner;
public class LCMandGCD {
  // Function to calculate GCD using Euclidean algorithm
  public static int calculateGCD(int a, int b) {
    while (b != 0) {
      int temp = b;
      b = a \% b;
      a = temp;
    return a;
  }
  // Function to calculate LCM using the formula: LCM(a, b) = |a * b| / GCD(a, b)
  public static int calculateLCM(int a, int b) {
    int gcd = calculateGCD(a, b);
    return Math.abs(a * b) / gcd;
  }
```

```
public static void main(String[] args) {
    Scanner scanner = new Scanner(System.in);
    System.out.print("Enter the first number: ");
    int num1 = scanner.nextInt();
    System.out.print("Enter the second number: ");
    int num2 = scanner.nextInt();
    // Calculate and display GCD
    int gcd = calculateGCD(num1, num2);
    System.out.println("GCD of " + num1 + " and " + num2 + " is: " + gcd);
    // Calculate and display LCM
    int lcm = calculateLCM(num1, num2);
    System.out.println("LCM of " + num1 + " and " + num2 + " is: " + lcm);
    scanner.close();
  }
}
Enter the first number: 2
Enter the second number: 3
GCD of 2 and 3 is: 1
LCM of 2 and 3 is: 6
```