```
import java.text.DecimalFormat;
import java.util.Scanner;

public class Sieve {

	public static void main(String[] args) {

		Scanner input = new Scanner(System.in);
		System.out.print("Enter the primes upper bound  ===>>  ");
		int upperBound = input.nextInt();
		input.close();
		boolean[] primes = computePrimes(upperBound); // Populate the array
		displayPrimes(primes); // Print the prime numbers

	}

	public static boolean[] computePrimes(int upperBound) {

		// This method will compute the prime numbers
		boolean[] primeArray = new boolean[upperBound + 1];
		for (int a = 0; a < primeArray.length; a++) {
			primeArray[a] = true;
		}
		int sqrt = (int) Math.sqrt(upperBound);
		for (int i = 2; i <= sqrt; i++) {
			if (primeArray[i]) {
				for (int k = i * i; k <= upperBound; k += i) {
					// false is Not prime
					primeArray[k] = false;
				}
			}
		}
		return primeArray;
	}

	public static void displayPrimes(boolean[] primeArray) {

		// This method will display the prime numbers
		int l = 0;
		String results = new String();
		for (int a = 0; a < String.valueOf(primeArray.length - 1).length(); a+
+) {
			results = results + "0";
		}
		DecimalFormat df = new DecimalFormat(results);
		for (int j = 2; j < primeArray.length; j++) {
			if (primeArray[j] == true) {
				// true is Prime
				String formattedj = df.format(j);
				System.out.print(formattedj + " ");
				l++;
				if (l % 16 == 0) {
					System.out.println();
				}
			}
		}
	}
}
```