

1. Write a program to swap two numbers in Java.

<https://codeshare.io/4eoxrE>

```
1 package com.tecnote.swap2numberprogram;
2
3 public class swap2numbers {
4     public static void main(String[] args) {
5
6         int x=6;
7         int y = 4;
8
9         System.out.println("x = " +y);
10        System.out.println("y = " +x);
11
12        /*int z;
13        z=x;
14        x=y;
15        y=z;
16        System.out.println("x = " +x);
17        System.out.println("y = " +y);*/
18
19    }
20 }
21
22
23
24
```

Problems Javadoc Declaration Console ×

<terminated> swap2numbers [Java Application] C:\Program Files\Java\jdk-19\bin\java.exe
x = 4
y = 6
<terminated> swap2numbers [Java Application]

2. Write a program to print all the elements of the Fibonacci series.

<https://codeshare.io/lonxAd>

```
package com.tecnote.fibo2numberprogram;
public class fibo {
    public static void main(String[] args) {
        int n = 10;
        int a = 0, b = 1;
        for (int i = 0; i < n; i++) {
            System.out.print(a + " ");
            int c = a + b;
            a = b;
            b = c;
        }
    }
}
```

<terminated> fibo [Java Application] C:\Program Files\Java\jdk-19\bin\java.exe
0 1 1 2 3 5 8 13 21 34

3. Check if a given number is palindrome or not.

<https://codeshare.io/eV6jA4>

```
1 package com.tecnotree.palindromeprogram;
2
3 public class palindrome {
4     public static void main(String[] args) {
5         int z = 123;
6         int rem, sum=0;
7         //int a = length(z);
8         //for(i=0; i<=a; i++)
9         while(z>0)
10        {
11            rem = z%10; //3
12            z=z/10; //12,
13            sum = sum*10 + rem; //
14
15        }
16
17        System.out.println("reverse number = " +sum);
18        if(sum==z) {
19            System.out.println("palindrome");
20        }
21        else
22        {
23            System.out.println("not a palindrome");
24        }
25    }
26 }
```

Problems Javadoc Declaration Console ×

<terminated> palindrome [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (28-Feb-2023, 5:13:57)
reverse number = 321
not a palindrome

4. Write a program to find whether a number is an Armstrong number or not.

<https://codeshare.io/K8E7JM>

```
1 package com.tecnotree.armstrongprogram;
2
3 public class armstrong {
4     public static void main(String[] args)
5     {
6         int sum, temp, order=0, digit;
7         int num = 153;
8
9         sum = 0;
10        temp = num;
11        order = String.valueOf(num).length();
12
13        while (temp > 0) {
14            digit = temp % 10;
15            sum += Math.pow(digit, order);
16            temp /= 10;
17        }
18        if (num == sum)
19            System.out.println("Armstrong number");
20        else
21            System.out.println(" not an Armstrong number");
22    }
23 }
24
25 }
26 }
```

Problems Javadoc Declaration Console ×

<terminated> armstrong [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (28-Feb-2023, 5:13:57)
Armstrong number

5. Find the GCD of two numbers.

<https://codeshare.io/PdE3mw>

```
1 package com.tecnotree.gcdprogram;
2
3 public class gcd {
4
5     public static int gcd(int a, int b) {
6         if (b == 0) {
7             return a;
8         } else {
9             return gcd(b, a % b);
10        }
11    }
12
13    public static void main(String[] args)
14    {
15        int a = 18;
16        int b = 12;
17        System.out.println(gcd(a, b));
18    }
19
20 }
21
22
23
24
```

Problems Javadoc Declaration Console ×

<terminated> gcd [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (28-Feb-2023, 5:31:15 pm – 5:31:17 pm) [pid: 96]

6. Write a program to find the sum of n natural numbers.

<https://codeshare.io/PdE3mw>

```
1 package com.tecnotree.gcdprogram;
2
3 public class gcd {
4
5     public static int gcd(int a, int b) {
6         if (b == 0) {
7             return a;
8         } else {
9             return gcd(b, a % b);
10        }
11    }
12
13    public static void main(String[] args)
14    {
15        int a = 18;
16        int b = 12;
17        System.out.println(gcd(a, b));
18    }
19
20 }
21
22
23
24
```

Problems Javadoc Declaration Console ×

<terminated> gcd [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (28-Feb-2023, 5:31:15 pm – 5:31:17 pm) [pid: 96]

7. Write a program to find the lcm of two numbers.

<https://codeshare.io/nzorb1>

```
1 package com.tecnotree.gcdprogram;
2
3 public class lcm {
4     public static void main(String[] args) {
5
6         int n1 = 72, n2 = 120, lcm;
7
8         // maximum number between n1 and n2 is stored in lcm
9         lcm = (n1 > n2) ? n1 : n2;
10
11         // Always true
12         while(true) {
13             if( lcm % n1 == 0 && lcm % n2 == 0 ) {
14                 System.out.printf("The LCM of %d and %d is %d.", n1, n2, lcm);
15                 break;
16             }
17             ++lcm;
18         }
19     }
20 }
21
```

Problems Javadoc Declaration Console x

<terminated> lcm [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (28-Feb-2023, 5:44:59 pm - 5:44:59 pm) [pid: 12345]
The LCM of 72 and 120 is 360.

8. Calculate the sum of digits of a given number.

<https://codeshare.io/1Y8v70>

```
3
4 public class SumOfDigit {
5
6
7     public static void main(String args[])
8     {
9         int number, digit, sum = 0;
10        Scanner sc = new Scanner(System.in);
11        System.out.print("Enter the number: ");
12        number = sc.nextInt();
13        while(number > 0)
14        {
15            //finds the last digit of the given number
16            digit = number % 10;
17            //adds last digit to the variable sum
18            sum = sum + digit;
19            //removes the last digit from the number
20            number = number / 10;
21        }
22        //prints the result
23        System.out.println("Sum of Digits: "+sum);
24    }
25 }
26
27
28
```

Problems Javadoc Declaration Console x

<terminated> SumOfDigit [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (28-Feb-2023, 5:44:59 pm - 5:44:59 pm) [pid: 12345]
Enter the number: 23
Sum of Digits: 5

9. Write a program to reverse a string.

<https://codeshare.io/4eo4qd>

```
2 package com.tecnotree.gcdprogram;
3 public class revString {
4     public static String reverseString(String s) {
5         return new StringBuilder(s).reverse().toString();
6     }
7
8     public static void main(String[] args) {
9         String s = "Hello, world!";
10        System.out.println(reverseString(s)); // Output: "!dlrow ,olleH"
11    }
12 }
13
```

Problems Javadoc Declaration Console ×

<terminated> revString [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (28-Feb-2023, 5:40:10 pm -
!dlrow ,olleH

10. Write a code to print all the first n prime numbers where n will be given as input.

<https://codeshare.io/oQ3qnr>

```
4 public class prime {
5
6
7     public static void main(String[] args) {
8         Scanner s = new Scanner(System.in);
9         System.out.print("Enter a number : ");
10        int n = s.nextInt();
11        if (isPrime(n)) {
12            System.out.println(n + " is a prime number");
13        } else {
14            System.out.println(n + " is not a prime number");
15        }
16    }
17
18    public static boolean isPrime(int n) {
19        if (n <= 1) {
20            return false;
21        }
22        for (int i = 2; i < Math.sqrt(n); i++) {
23            if (n % i == 0) {
24                return false;
25            }
26        }
27        return true;
28    }
29 }
30
```

Problems Javadoc Declaration Console ×

<terminated> prime [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (28-Feb-2023, 5:27:18 pm - 5:2
Enter a number : 5
5 is a prime number