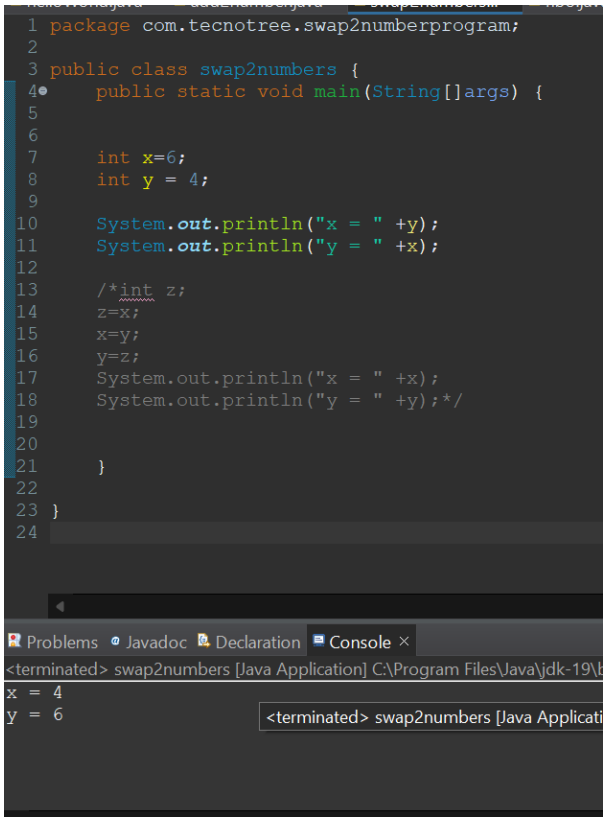
1. Write a program to swap two numbers in Java.

https://codeshare.io/4eoxrE



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

https://codeshare.io/lonxAd

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

https://codeshare.io/eV6jA4

```java
package com.tecnotree.palindromeprogram;

public class palindrome {
    public static void main(String[] args) {
        int z = 123;
        int rem,sum=0;
        //int a = length(z);
        //for(i=0;i<=a;i++)
        while(z>0)
        {
            rem = z%10;//3
            z=z/10; //12,
            sum = sum*10 + rem;//

        }

        System.out.println("reverse number = " +sum);
        if(sum==z) {
            System.out.println("palindrome");

        }
        else
        {
            System.out.println("not a palindrome");
        }
```

Problems Javadoc Declaration Console

```
erminated> palindrome [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe
everse number = 321
ot a palindrome
```

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

https://codeshare.io/K8E7JM

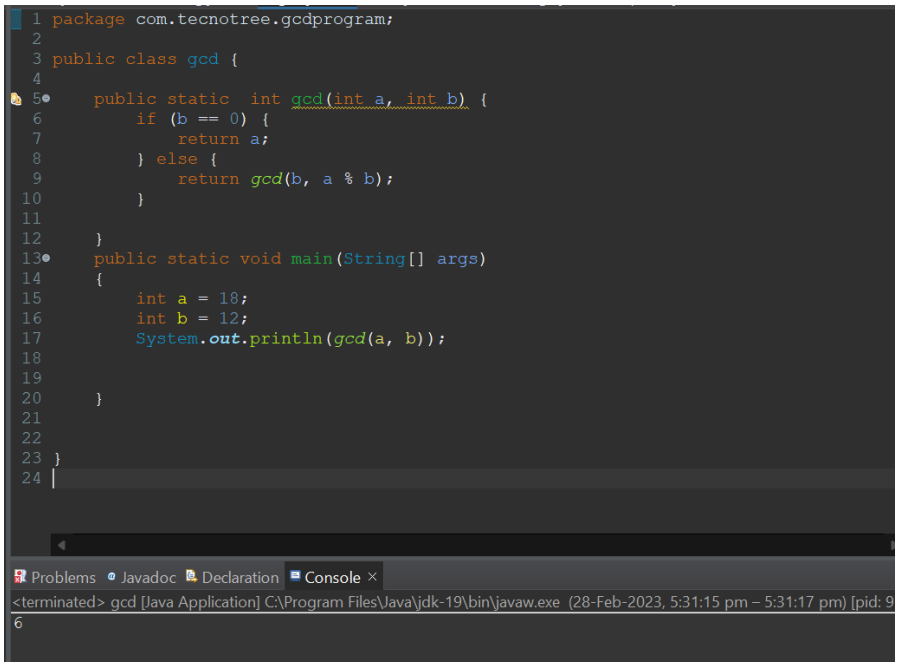
```java
package com.tecnotree.armstrongprogram;

public class armstrong {
    public static void main(String[] args)
    {
        int sum, temp,order=0, digit;
        int num = 153;

        sum = 0;
        temp = num;
        order = String.valueOf(num).length();

        while (temp > 0) {
            digit = temp % 10;
            sum += Math.pow(digit, order);
            temp /= 10;
            }
        if (num == sum)
            System.out.println("Armstrong number");
        else
            System.out.println(" not an Armstrong number");

    }
}
```

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
```

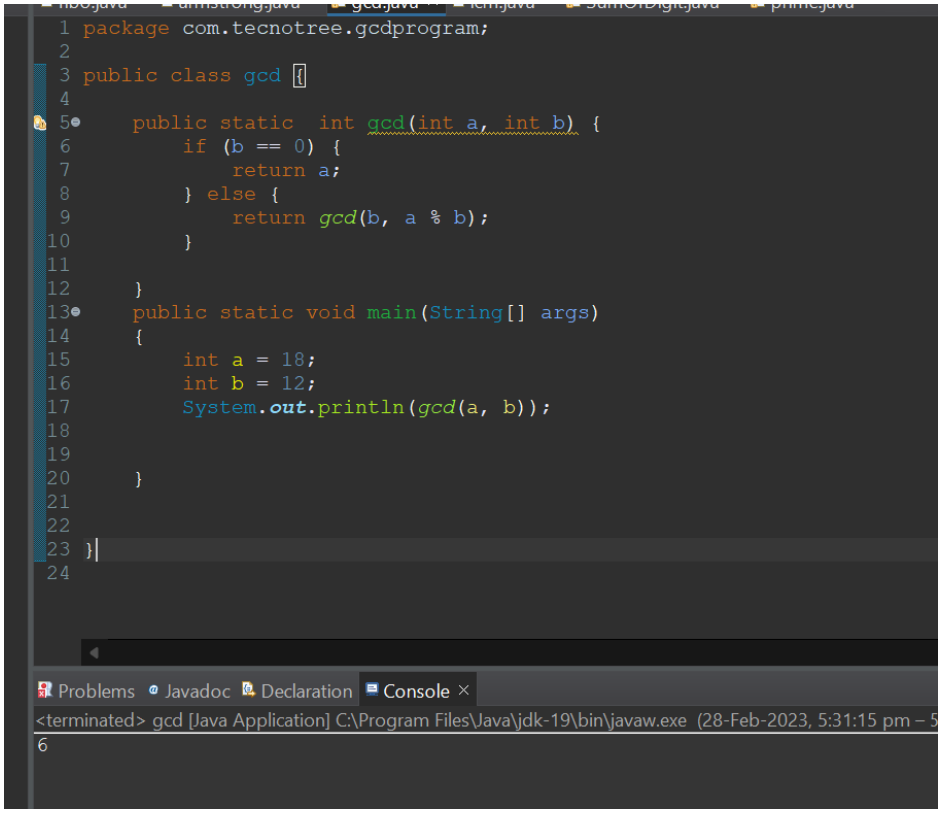
5.Find the GCD of two numbers.

https://codeshare.io/PdE3mw



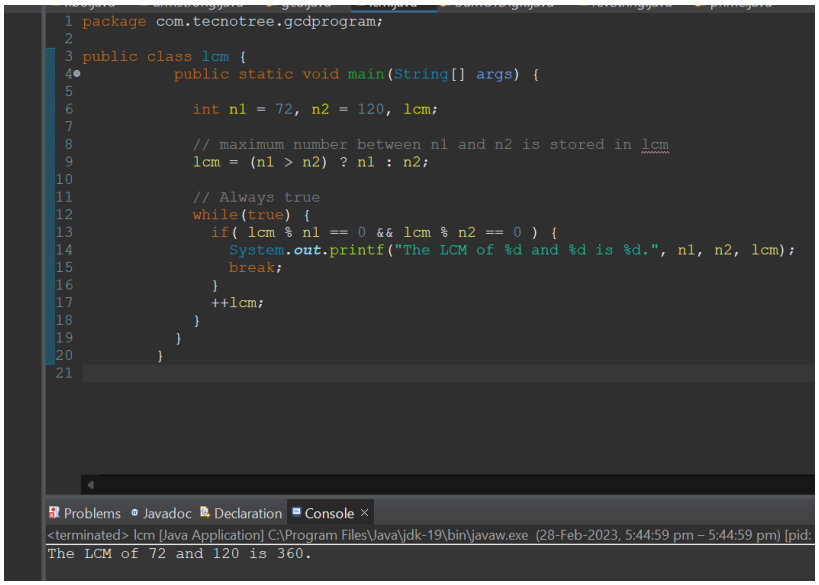
6.Write a program to find the sum of n natural numbers.

https://codeshare.io/PdE3mw



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

https://codeshare.io/nzorb1

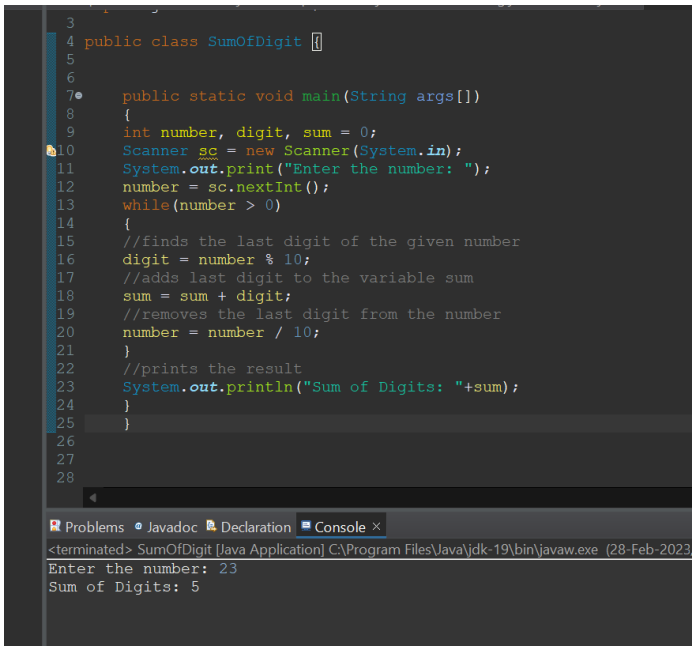


```
package com.tecnotree.gcdprogram;

public class lcm {
        public static void main(String[] args) {

          int n1 = 72, n2 = 120, lcm;

          // maximum number between n1 and n2 is stored in lcm
          lcm = (n1 > n2) ? n1 : n2;

          // Always true
          while(true) {
            if( lcm % n1 == 0 && lcm % n2 == 0 ) {
              System.out.printf("The LCM of %d and %d is %d.", n1, n2, lcm);
              break;
            }
            ++lcm;
          }
        }
      }
```

```
Problems  Javadoc  Declaration  Console ×
<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:
The LCM of 72 and 120 is 360.
```

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

https://codeshare.io/1Y8v70



```
public class SumOfDigit {


    public static void main(String args[])
    {
    int number, digit, sum = 0;
    Scanner sc = new Scanner(System.in);
    System.out.print("Enter the number: ");
    number = sc.nextInt();
    while(number > 0)
    {
    //finds the last digit of the given number
    digit = number % 10;
    //adds last digit to the variable sum
    sum = sum + digit;
    //removes the last digit from the number
    number = number / 10;
    }
    //prints the result
    System.out.println("Sum of Digits: "+sum);
    }
    }
```

```
Problems  Javadoc  Declaration  Console ×
<terminated> SumOfDigit [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe  (28-Feb-2023
Enter the number: 23
Sum of Digits: 5
```

9.Write a program to reverse a string.

https://codeshare.io/4eo4qd

```java
package com.tecnotree.gcdprogram;
public class revString {
    public static String reverseString(String s) {
        return new StringBuilder(s).reverse().toString();
    }

    public static void main(String[] args) {
        String s = "Hello, world!";
        System.out.println(reverseString(s)); // Output: "!dlrow ,olleH
    }
}
```

```
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

```java
public class prime {


    public static void main(String[] args) {
        Scanner s = new Scanner(System.in);
        System.out.print("Enter a number : ");
        int n = s.nextInt();
        if (isPrime(n)) {
            System.out.println(n + " is a prime number");
        } else {
            System.out.println(n + " is not a prime number");
        }
    }

    public static boolean isPrime(int n) {
        if (n <= 1) {
            return false;
        }
        for (int i = 2; i < Math.sqrt(n); i++) {
            if (n % i == 0) {
                return false;
            }
        }
        return true;
    }
}
```

```
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
```