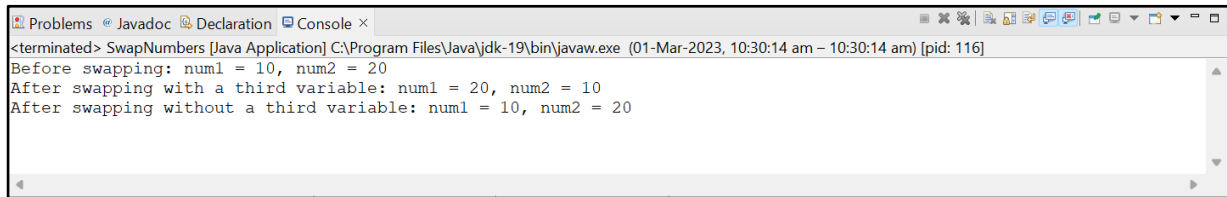# Java Assignment – 05

Topic: Basic Java Programs for beginners

1. Write a program to swap two numbers in Java. Hint: Two ways to do this -with the third variable and without the third variable.
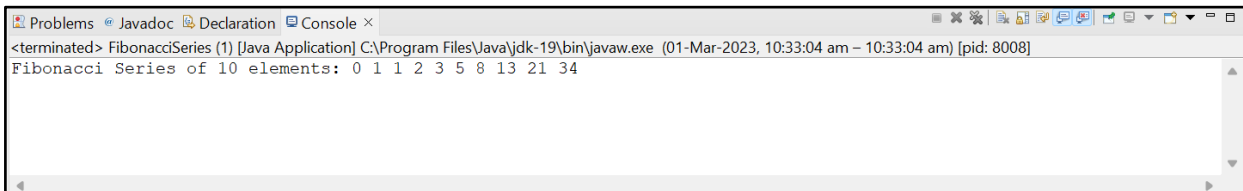
https://codeshare.io/gL9y4V

```
Problems  @ Javadoc  Declaration  Console ×
<terminated> SwapNumbers [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe  (01-Mar-2023, 10:30:14 am – 10:30:14 am) [pid: 116]
Before swapping: num1 = 10, num2 = 20
After swapping with a third variable: num1 = 20, num2 = 10
After swapping without a third variable: num1 = 10, num2 = 20
```

2. Write a program to print all the elements of the Fibonacci series. Hint: A Fibonacci series is given by Fib(n)=Fib(n-1)+Fib(n-2)

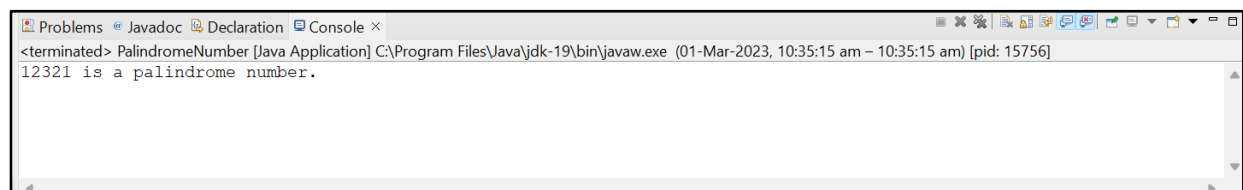https://codeshare.io/gL9y4V

```
Problems  @ Javadoc  Declaration  Console ×
<terminated> FibonacciSeries (1) [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe  (01-Mar-2023, 10:33:04 am – 10:33:04 am) [pid: 8008]
Fibonacci Series of 10 elements: 0 1 1 2 3 5 8 13 21 34
```

3. Check if a given number is palindrome or not. Hint: A palindrome is a number which when reversed gives the same number. We find the reverse and check whether it is equal to the given number or not.
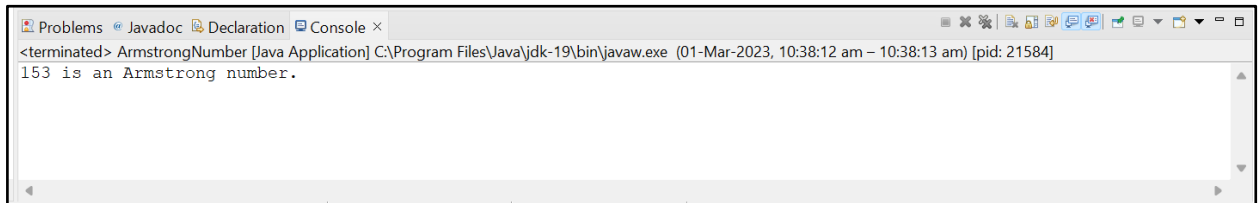
https://codeshare.io/nzo7r4

```
Problems  @ Javadoc  Declaration  Console ×
<terminated> PalindromeNumber [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe  (01-Mar-2023, 10:35:15 am – 10:35:15 am) [pid: 15756]
12321 is a palindrome number.
```

4. a program to find whether a number is an Armstrong number or not. Hint: Armstrong number - Sum of the cubes of its digit is equal to the number itself. E.g – 153
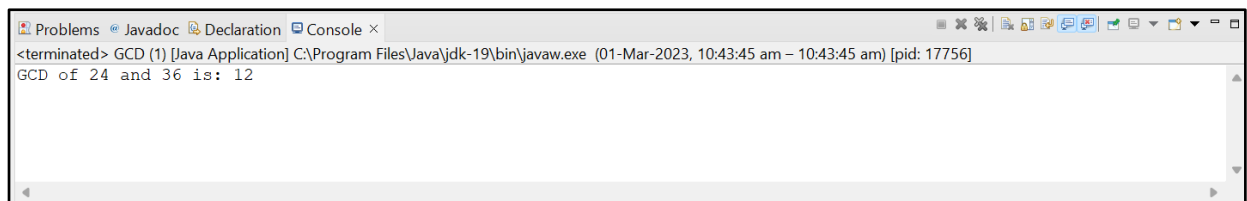
https://codeshare.io/1Y8MvB

```
Problems  @ Javadoc  Declaration  Console ×
<terminated> ArmstrongNumber [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe  (01-Mar-2023, 10:38:12 am – 10:38:13 am) [pid: 21584]
153 is an Armstrong number.
```
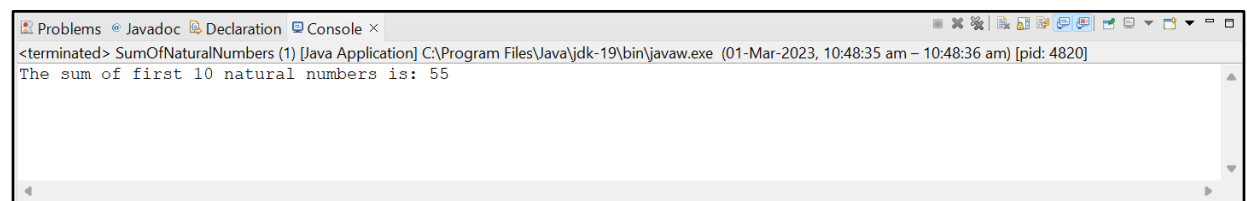
5. Find the GCD of two numbers.

https://codeshare.io/8plMOJ

```
Problems  @ Javadoc  Declaration  Console ×
<terminated> GCD (1) [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe  (01-Mar-2023, 10:43:45 am – 10:43:45 am) [pid: 17756]
GCD of 24 and 36 is: 12
```

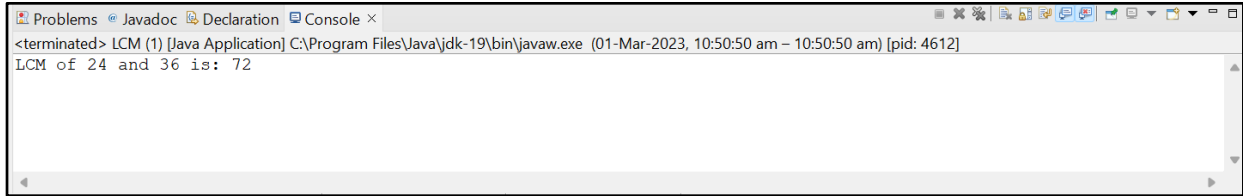6. Write a program to find the sum of n natural numbers.

https://codeshare.io/N3p0gV

```
Problems  @ Javadoc  Declaration  Console ×
<terminated> SumOfNaturalNumbers (1) [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe  (01-Mar-2023, 10:48:35 am – 10:48:36 am) [pid: 4820]
The sum of first 10 natural numbers is: 55
```
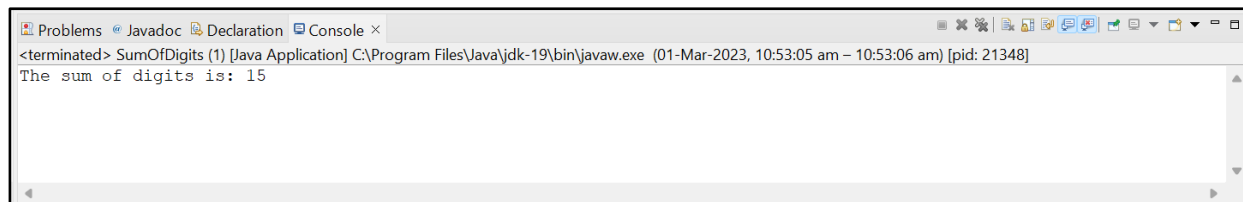
7. Write a program to find the Icm of two numbers.

   https://codeshare.io/ZJE0rN

```
Problems  Javadoc  Declaration  Console ×
<terminated> LCM (1) [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe  (01-Mar-2023, 10:50:50 am – 10:50:50 am) [pid: 4612]
LCM of 24 and 36 is: 72
```
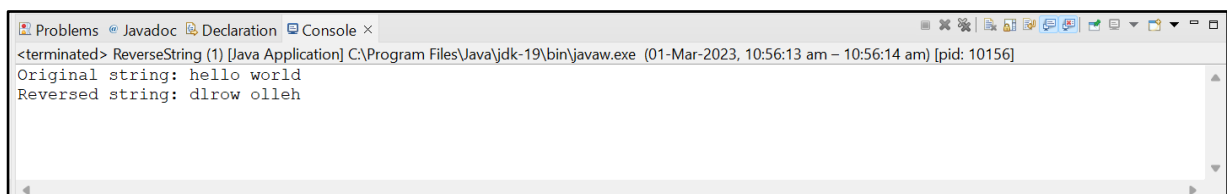
8. Calculate the sum of digits of a given number.

   https://codeshare.io/YLE08L

```
Problems  Javadoc  Declaration  Console ×
<terminated> SumOfDigits (1) [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe  (01-Mar-2023, 10:53:05 am – 10:53:06 am) [pid: 21348]
The sum of digits is: 15
```

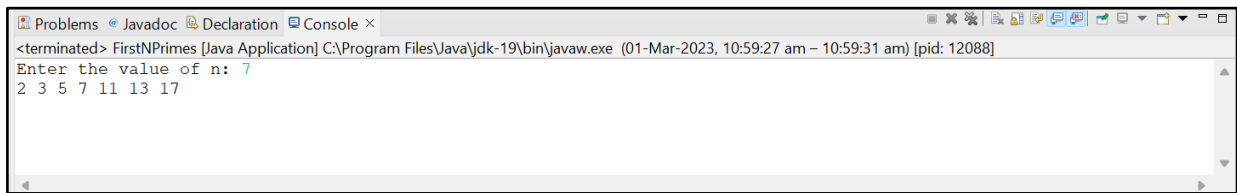9. Write a program to reverse a string. Hint: We use the string buffer class to easily reverse the string.

   https://codeshare.io/8plMee

```
Problems  Javadoc  Declaration  Console ×
<terminated> ReverseString (1) [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe  (01-Mar-2023, 10:56:13 am – 10:56:14 am) [pid: 10156]
Original string: hello world
Reversed string: dlrow olleh
```

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

   https://codeshare.io/0gvMJv

```
Problems  @ Javadoc  Declaration  Console ×
<terminated> FirstNPrimes [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe  (01-Mar-2023, 10:59:27 am – 10:59:31 am) [pid: 12088]
Enter the value of n: 7
2 3 5 7 11 13 17
```