

## Assignment-05

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/gL9znV>

```
<terminated> swap [Java Application] C:\Users\shettma\p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.  
Enter the value of X and Y  
45  
8  
before swapping numbers: 45 8  
After swapping: 8 45
```

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/OdEVDW>

```
<terminated> fibonocci [Java Application] C:\Users\shettma\p2\pool\plugins\org.eclipse.  
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/eV6Xg4>

```
<terminated> palindrome [Java Application] C:\Users\shettma\p2\pool\plugins\org  
palindrome number
```

4. Write 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/K8Epy7>

```
<terminated> Armstrong [Java Application] C:\Users\shettma\p2\pool\plugin:  
Enter the limit: 6  
Armstrong Number up to 6 are:  
0, 1, 2, 3, 4, 5, 6,
```

5. Find the GCD of two numbers.

<https://codeshare.io/dwQJ7D>

```
<terminated> GCD [Java Application] C:\Users\shettma\p2\pool\plugins\org.eclipse.jus  
GCD of 12 and 8 is: 4
```

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

<https://codeshare.io/nzod6Y>

```
<terminated> Naturalnum [Java Application] C:\Users\shettma\p2\pool\plug  
Sum of First 10 Natural Numbers is = 55
```

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

<https://codeshare.io/bvOW4q>

```
<terminated> LCM [Java Application] C:\Users\shettma\.p2\pool\plugins\org.eclipse.justj.openjdk.f
The LCM of 12 and 9 is 36.
```

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

<https://codeshare.io/km89BY>

```
<terminated> sum [Java Application] C:\Users\shettma\.p2\pool\plugins\org.eclipse.jus
The sum of digits: 28
```

9. Write a program to reverse a string.

<https://codeshare.io/mpbKzk>

```
<terminated> reverse [Java Application] C:\Users\shettma\.p2\pool\plugins\org.eclip:
Original string: Dream big
Reverse of given string: gib maerD
```

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

<https://codeshare.io/loneXg>

```
<terminated> Primum [Java Application] C:\Users\shettma\.p2\pool\plugins\org.ε
3 is prime number
```