## Assessment -5 Basics Java Programming

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

https://codeshare.io/mpbjZW

```
🛚 swaptonumbers.java 🗡
1 package com.tecnotree.helloworldprogram;
 3 public class swaptonumbers {
      public static void main(String[] args) {
         // TODO Auto-generated method stub
 7
            int a=12;
 8
          int b=20;
 9
          System.out.println("before swapping the numbers:");
System.out.println("first number="+a);
 11
12
            System.out.println("second number="+b);
13
           a=a+b;
14
 15
            b=a-b;
16
            a=a-b;
17
18
           System.out.println("after swapping the numbers:");
19
            System.out.println("first number="+a);
20
            System.out.println("second number="+b);
21
22
23
24 }

    Problems @ Javadoc    □ Declaration □ Console ×

<terminated> swaptonumbers [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (27-Feb-2023, 9:16:46 pm - 9:16:49 pm) [pid: 16000]
before swapping the numbers:
first number=12
second number=20
after swapping the numbers:
first number=20
second number=12
```

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

#### https://codeshare.io/zyA9Oj

```
fibonacciseries.java ×
    package com.tecnotree.helloworldprogram;
  3 public class fibonacciseries {
         public static void main(String[] args) {
             // TODO Auto-generated method stub
int num=16;
              int a=0,b=1;
             System.out.print(a+","+b+",");
             int nextTerm;
              for(int i=2;i<num;i++)</pre>
                   nextTerm=a+b;
                   a=b;
                   b=nextTerm;
                  System.out.print(nextTerm +",");

    Problems @ Javadoc    □ Declaration    □ Console ×

<terminated> fibonacciseries [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (27-Feb-2023, 9:34:23 pm - 9:34:24 pm) [pid: 1104]
0,1,1,2,3,5,8,13,21,34,55,89,144,233,377,610,
```

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

#### https://codeshare.io/JbMgkE

```
palindrome.iava ×
1 package com.tecnotree.helloworldprogram;
  3 public class palindrome {
        public static void main(String[] args) {
             int num=12021, reverse=0, rem, temp;
             temp=num;
             while (temp!=0)
 10
11
12
13
                  rem=temp%10;
                  reverse=reverse*10+rem;
                  temp/=10;
14
15
16
17
             } ;
             if(num==reverse)
                  System.out.println(num+"is palindrome");
                  System.out.println(num+"not palindrome");
21
22
23

    Problems @ Javadoc    □ Declaration    □ Console ×

<terminated> palindrome [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (27-Feb-2023, 9:54:10 pm – 9:54:10 pm) [pid: 11388]
12021is palindrome
```

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

#### https://codeshare.io/oQ3qwL

```
    armstrong.java ×

1 package com.tecnotree.helloworldprogram;
              public class armstrong{
                     public static void main(String[] args) {
    Scanner sc = new Scanner(System.in);
    System.out.print("Enter a number: ")
 9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
                            int sum = 0;
int originalNumber = number;
                           int digits = String.valueOf(number).length();
                            while (number > 0) {
   int digit = number % 10;
   sum += Math.pow(digit, digits);
                                  number /= 10;
                            if (originalNumber == sum) {
                                  System.out.println(originalNumber + " is an Armstrong number.");
                            } else
                                  System.out.println(originalNumber + " is not an Armstrong number.");
                            sc.close();
                     1
Problems @ Javadoc № Declaration ☐ Console ×
<terminated> armstrong [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (27-Feb-2023, 10:03:38 pm – 10:03:41 pm) [pid: 16496]
Enter a number:
153 is an Armstrong number.
```

## 5. Find the GCD of two numbers.

#### https://codeshare.io/WdE8oE

```
1 package com.tecnotree.helloworldprogram;
              3 public class GCD {
                                                 public static void main(String[] args) {
                                                                             // TODO Auto-generated method stub
int n1=20,n2=50,gcd;
· 7
                                                                             while (n1!=n2) {
    if (n1>n2)
       10
                                                                                                                             n1-=n2;
      11
12
                                                                                                    else
                                                                                                                             n2-=n1;
      13
14
15
16
17
18
19 }
                                                                             System.out.println("the gcd:"+n1);
 ♣ Problems @ Javadoc ♣ Declaration ➡ Console ×
  $$ {\sf CCD [Java Application] C:Program Files: Java, jdk-19\cdot bin} avaw. exe (27-Feb-2023, 9:59:50 pm-9:59:52 pm) [pid: 7728] available for the program of t
  the gcd:10
```

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

#### https://codeshare.io/4eoxJ4

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

#### https://codeshare.io/gL9pIV

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

#### https://codeshare.io/r9IrBV

## 9. Write a program to reverse a string.

#### https://codeshare.io/WdE8g3

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

#### https://codeshare.io/nzor9j

```
| primenumbers,java x | | public class primenumbers (| public class primen
```

-----THANK YOU-----