ASSIGNMENT-5

1.Write a program to swap two numbers in Java
https://codeshare.io/eV6YO9

```
Swapping.java ×
1  package com.tecnotree.swappingprogram;
2
3  public class Swapping {
4
5      public static void main(String[] args) {
6          // TODO Auto-generated method stub
7          int x=10;
8          int y=23;
9
10
11         /*  int z;
12         z=x;
13         x=y;
14         y=z;
15          System.out.println("x= "+x);
16         System.out.println("y= "+y);*/
17
18
19         System.out.println("x= "+y);
20         System.out.println("y= "+x);
21     }
22
23 }
24
```

```
Problems  ✹ Javadoc  Declaration  ☐ Console ×
<terminated> Swapping [Java Application] C:\Users\Mahadra\jdk-19\bin\javaw.exe  (28-Feb-2023, 11:41:47 am – 11:41:48 am
x= 23
y= 10
```

| Writable | Smart Insert | 1:1:0 |

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

http://codeshare.io/0gvB1e

Fibonacci.java ×

```java
1  package com.tecnotree.fibonacciprogram;
2
3  public class Fibonacci {
4
5      public static void main(String[] args) {
6          // TODO Auto-generated method stub
7          int n1=0,n2=1,i,n=10;
8          for(i=0;i<n;i++)
9          {
10         int n3=n1+n2;
11         System.out.println(""+n3);
12         n1=n2;
13         n2=n3;
14         }
15     }
16
17 }
18
```

Problems @ Javadoc 📖 Declaration 💻 Console ×

<terminated> Fibonacci [Java Application] C:\Users\Mahadra\jdk-19\bin\javaw.exe (28-Feb-2023, 11:4

```
1
2
3
5
8
13
21
34
55
89
```

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

https://codeshare.io/wnvKr7

```java
Palindrome.java ×
 1  package com.tecnotree.palindromeprogram;
 2
 3  public class Palindrome {
 4
 5      public static void main(String[] args) {
 6          // TODO Auto-generated method stub
 7          int rem,n=123,rev=0;
 8          while(n>0)
 9          {
10              rem=n%10;
11              n=n/10;
12              rev=rev*10+rem;
13          }
14          System.out.println(rev);
15          if(n==rev)
16              System.out.println("Palindrome");
17          else
18              System.out.println("Not a Palindrome");
19      }
20
21  }
22
```

Problems @ Javadoc Declaration Console ×
<terminated> Palindrome [Java Application] C:\Users\Mahadra\jdk-19\bin\javaw.exe (28-Feb-2023, 11
321
Not a Palindrome

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

https://codeshare.io/qPmzgk

```java
Strongarm.java ×
 1  package com.tecnotree.strongarmprogram;
 2  import java.util.Scanner;
 3  public class Strongarm {
 4
 5      public static void main(String[] args) {
 6
 7
 8
 9          Scanner in = new Scanner(System.in);
10          System.out.print("Enter a number: ");
11          int num = in.nextInt();
12          int sum = 0,temp=num;
13          while (temp > 0) {
14              int digit = temp % 10;
15              sum += (digit * digit * digit);
16              temp /= 10;
17          }
18
19          if (num == sum)
20          {
21              System.out.println(num+" is an Armstrong number" );
22          }
23          else
24          {
25              System.out.println(num+" is not an Armstrong number");
26          }
27      }
28  }
29
```

Problems @ Javadoc Declaration Console ×
<terminated> Strongarm [Java Application] C:\Users\Mahadra\jdk-19\bin\javaw.exe (28-Feb-2023, 11:56:13 am – 11:56:19 am) [pid: 7404]
Enter a number: 572
572 is not an Armstrong number

5.Find the GCD of two numbers.

https://codeshare.io/pqkOy0

```java
package com.tecnotree.gcdprogram;

public class GCD {

    public static void main(String[] args) {
        // TODO Auto-generated method stub
        int n1=34,n2=12;
        while(n1!=n2)
        {
        if(n1>n2)
        n1=n1-n2;
        else
        n2=n2-n1;
        }
        System.out.printf("GCD of n1 and n2 is: " +n2);

    }

}
```

Problems @ Javadoc Declaration Console ×

<terminated> Strongarm [Java Application] C:\Users\Mahadra\jdk-19\bin\javaw.exe (28-Feb-
Enter a number: 572
572 is not an Armstrong number

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

https://codeshare.io/eV6Ygr

```java
package com.tecnotree.sumprogram;

public class Sum {

    public static void main(String[] args) {
        // TODO Auto-generated method stub
        int i,n=10,sum=0;
        for(i=1;i<=n;i++) {
            sum=sum+i;
        }
        System.out.println("Sum="+sum);
    }

}
```

Problems @ Javadoc Declaration Console ×

<terminated> Sum [Java Application] C:\Users\Mahadra\jdk-19\bin\javaw.exe (2
Sum=55

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

https://codeshare.io/wnvAdB

```java
package com.tecnotree.lcmprogram;
import java.util.Scanner;
public class LCM {

    public static void main(String[] args) {
        // TODO Auto-generated method stub
        Scanner in = new Scanner(System.in);
        System.out.print("Enter the first number: ");
        int num1 = in.nextInt();
        System.out.print("Enter the second number: ");
        int num2 = in.nextInt();

        int lcm = num1;
        while (lcm % num2 != 0) {
            lcm += num1;
        }

        System.out.println("LCM of " + num1 + " and " + num2 + " is " + lcm);


    }

}
```

Problems @ Javadoc Declaration Console ✕

<terminated> LCM [Java Application] C:\Users\Mahadra\jdk-19\bin\javaw.exe (28-Feb-2023, 12:23:55 pm – 12:24:05 pm) [pid:

```
Enter the first number: 12
Enter the second number: 45
LCM of 12 and 45 is 180
```

8. Calculate the sum of digits of a given number

https://codeshare.io/dwQNwz

```java
package com.tecnotree.sumofdigitsprogram;

public class SumofDigits {

    public static void main(String[] args) {
        // TODO Auto-generated method stub
        int n=234,sum=0;
        while(n!=0)
        {
            sum=sum+n%10;
            n=n/10;
        }
        System.out.println(sum);
    }
}
```

Problems @ Javadoc Declaration Console ✕

<terminated> SumofDigits [Java Application] C:\Users\Mahadra\jdk-19\bin\jav

```
9
```

9.Write a program to reverse a string
https://codeshare.io/N3pJKm

```java
ReverseString.java ×
1  package com.tecnotree.revstrprogram;
2  import java.util.Scanner;
3  public class ReverseString {
4
5      public static void main(String[] args) {
6          // TODO Auto-generated method stub'
7          Scanner in = new Scanner(System.in);
8          System.out.println("Enter string :");
9              String inputString = in.nextLine();
10             String reversedString = "";
11             for (int i = inputString.length() - 1; i >= 0; i--) {
12                 reversedString += inputString.charAt(i);
13             }
14
15             System.out.println("Reversed string: " + reversedString);
16      }
17
18 }
19
```

Problems @ Javadoc 🔍 Declaration 🖳 Console ×
<terminated> ReverseString [Java Application] C:\Users\Mahadra\jdk-19\bin\javaw.exe (28-Feb-2023, 12:28:01
Enter string :
Rachana
Reversed string: anahcaR

10.Write a code to print all the first n prime numbers where n will be given as input.
https://codeshare.io/YLE8zM

```java
*PrimeNumber.java ×
1  package com.tecnotree.primenumberprogram;
2  import java.util.Scanner;
3  public class PrimeNumber {
4      public static void main(String[] args) {
5          // TODO Auto-generated method stub
6          Scanner in = new Scanner(System.in);
7           System.out.println("Enter value of n :");
8            int n = in.nextInt();
9
10            int cnt=0,num=2;
11
12              while (cnt< n) {
13                 boolean isPrime = true;
14                 for (int i = 2; i <= Math.sqrt(num); i++) {
15                     if (num% i == 0) {
16                         isPrime = false;
17                         break;
18                     }
19                 }
20                 if (isPrime) {
21                     System.out.print( " "+num);
22                     cnt++;
23                 }
24                 num++;
25             }
26      }
27 }
28
```

Problems @ Javadoc 🔍 Declaration 🖳 Console ×
<terminated> PrimeNumber (1) [Java Application] C:\Users\Mahadra\jdk-19\bin\javaw.exe (28-Feb-2
Enter value of n :
8
 2 3 5 7 11 13 17 19