Assinment 5

1. Write a Java program to swap two numbers.

```
Before swapping:
a = 7
b = 14
After swapping:
a = 14
b = 7
```

add.java | fibbonac.java | assignment.java | exampl1.java × | A36.java | A39.java | A30.java | A41.java

```
1  package example;
2
3  public class exampl1 {
4      public static void main(String[] args) {
5      int a = 7;
6      int b = 14;
7      System.out.println("Before swapping:");
8      System.out.println("a = " + a);
9      System.out.println("b = " + b);
10     int z = a; a = b;
11     b = z;
12     System.out.println("After swapping:"); System.out.println("a = " + a); System.out.prin
13     }
14
15
16 }
17
```

Codeshare link :

https://codeshare.io/PdElDQ

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

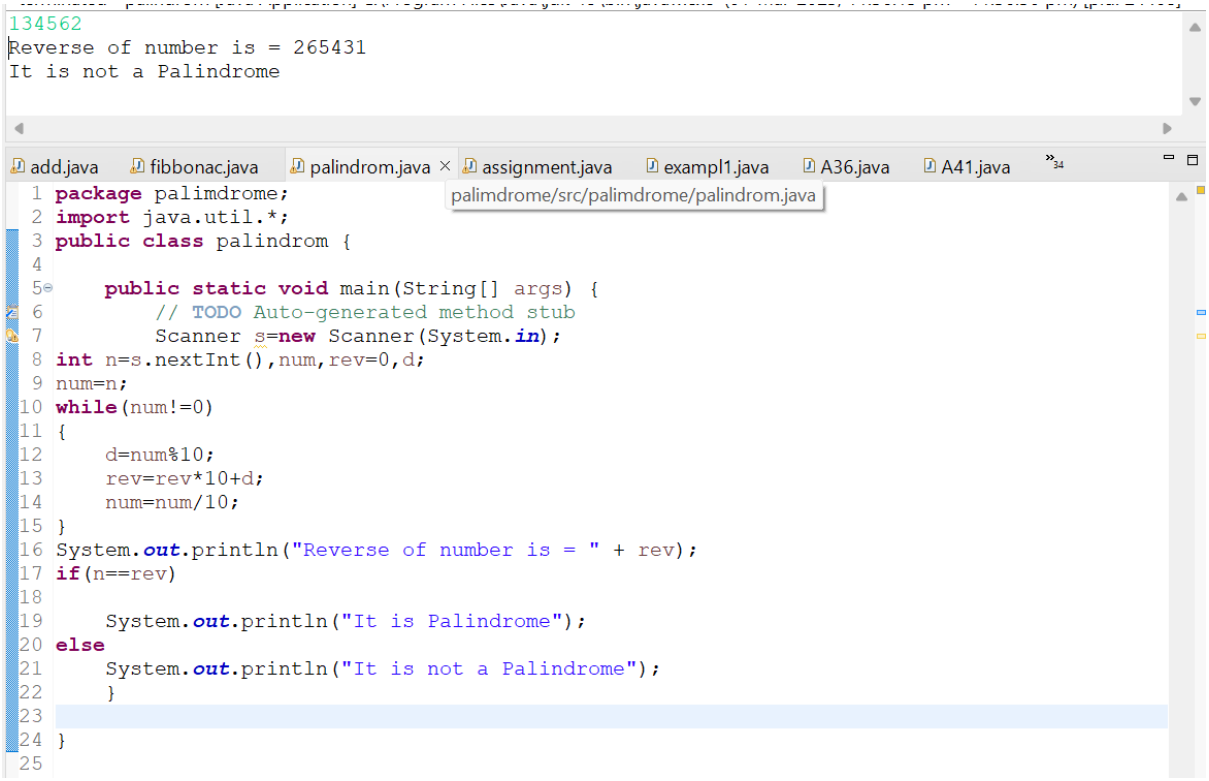
```
Enter the number of terms to generate in the Fibonacci series: 9
Fibonacci series up to null terms: 0 1 1 2 3 5 8 13 21
```

add.java | fibbonac.java × | assignment.java | exampl1.java | A36.java | A39.java | A30.java | A41.java

```
1  package fibonacci;
2  import java.util.*;
3  public class fibbonac {
4
5      public static void main(String[] args) {
6          // TODO Auto-generated method stub
7            Scanner s= new Scanner(System.in);
8              System.out.print("Enter the number of terms to generate in the Fibonacci serie
9              int n = s.nextInt();
10             int prev = 0, next = 1, sum = 0;
11             String numTerms = null;
12             System.out.print("Fibonacci series up to " + numTerms + " terms: ");
13             for (int i = 1; i <= n; i++) {
14                 System.out.print(prev + " ");
15                 sum = prev + next;
16                 prev = next;
17                 next = sum;
18             }
19     }
20
21 }
22
```

Codeshare link : https://codeshare.io/JbMnBE

3. Write a Java program to check whether a given number is palindrome or not.



```
134562
Reverse of number is = 265431
It is not a Palindrome
```

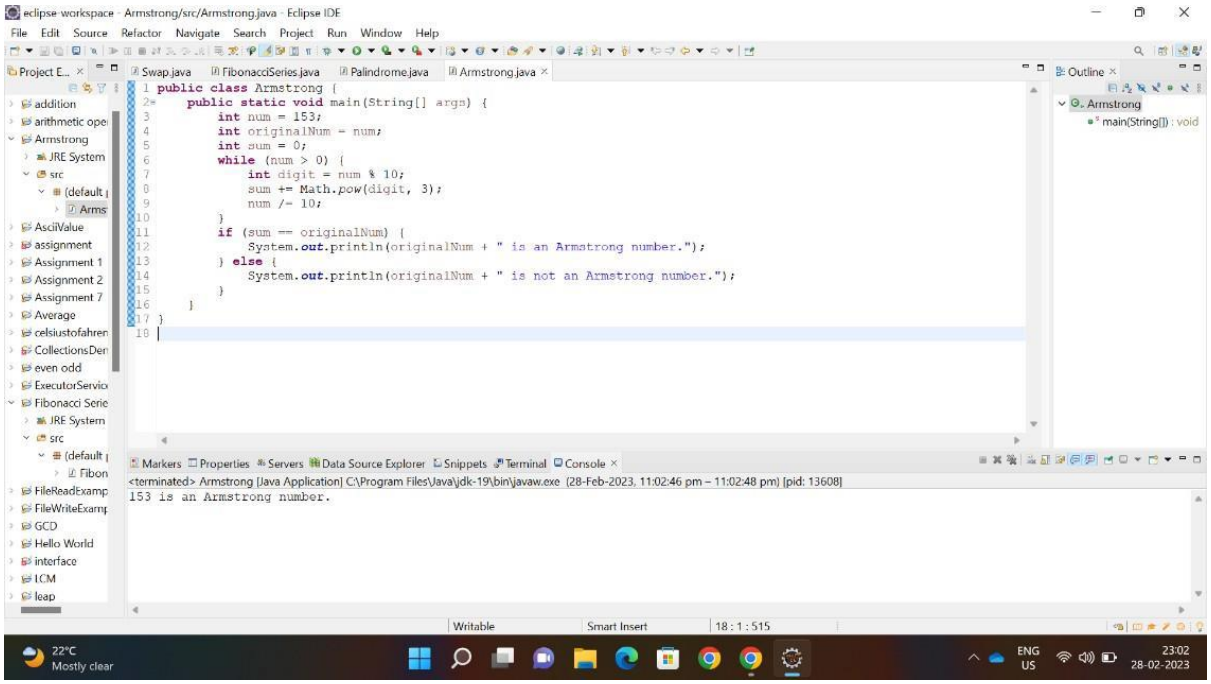
add.java | fibbonac.java | palindrom.java | assignment.java | exampl1.java | A36.java | A41.java

palimdrome/src/palimdrome/palindrom.java

```
1  package palimdrome;
2  import java.util.*;
3  public class palindrom {
4
5      public static void main(String[] args) {
6          // TODO Auto-generated method stub
7          Scanner s=new Scanner(System.in);
8  int n=s.nextInt(),num,rev=0,d;
9  num=n;
10 while(num!=0)
11 {
12     d=num%10;
13     rev=rev*10+d;
14     num=num/10;
15 }
16 System.out.println("Reverse of number is = " + rev);
17 if(n==rev)
18
19     System.out.println("It is Palindrome");
20 else
21     System.out.println("It is not a Palindrome");
22     }
23
24 }
25
```

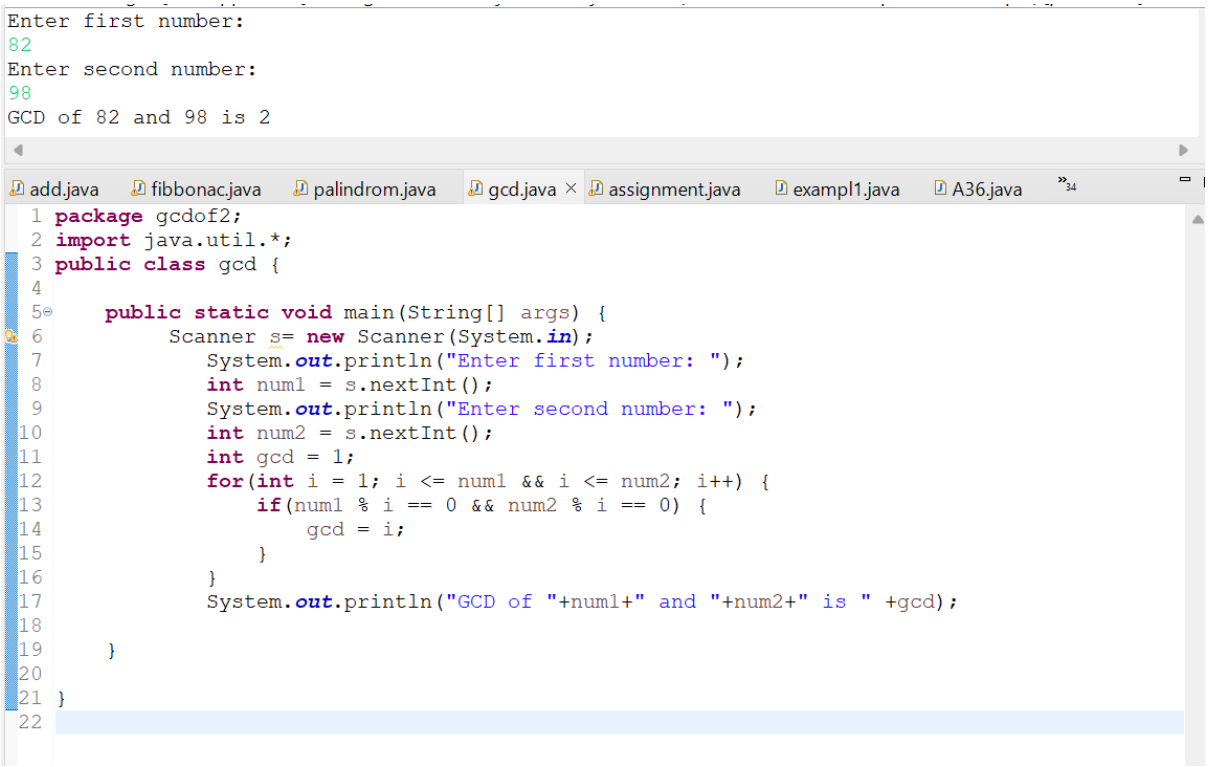
Codeshare link : https://codeshare.io/K8Ebq8

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



Codeshare link : https://codeshare.io/yo0EVw

5. Write a Java program to find the GCD of two numbers.



Codeshare link : https://codeshare.io/DZEwqm

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

```
Enter a positive integer n: 8
The sum of the first 8 natural numbers is: 36
```

fibbonac.java | palindrom.java | sum.java × | sum.java | gcd.java | exampl1.java | A36.java

```java
package sumofn;
import java.util.*;
public class sum {

    public static void main(String[] args) {
        // TODO Auto-generated method stub
Scanner  s= new Scanner(System.in);
System.out.print("Enter a positive integer n: ");
int n = s.nextInt();
int sum = 0;
for (int i = 1; i <= n; i++) {
    sum += i;
}
System.out.println("The sum of the first " + n + " natural numbers is: " + sum);
}
}
```

Codeshare link : https://codeshare.io/YLE9eQ

7. Write a Java program to find the LCM of two numbers.

```
Enter first number:
34
Enter second number:
42
LCM of 34 and 42 is 2714
```

fibbonac.java | palindrom.java | sum.java | sum.java | lcm.java × | gcd.java | exampl1.java | A36.java

```java
package lcmof2;
import java.util.*;
public class lcm {
    public static void main(String[] args) {
         Scanner s = new Scanner(System.in);
            System.out.println("Enter first number: ");
            int num1 = s.nextInt();
            System.out.println("Enter second number: ");
            int num2 = s.nextInt();
            int lcm;
            if(num1 > num2) {
                lcm = num1;
            } else {
                lcm = num2;
            }
            while(true) {
                if(lcm % num1 == 0 && lcm % num2 == 0) {
                    System.out.println("LCM of "+ num1+" and "+ num2+" is 2"+ lcm);
                    break;
                }
                lcm++;
            }
    }

}
```

Codeshare link : https://codeshare.io/wnvEV7

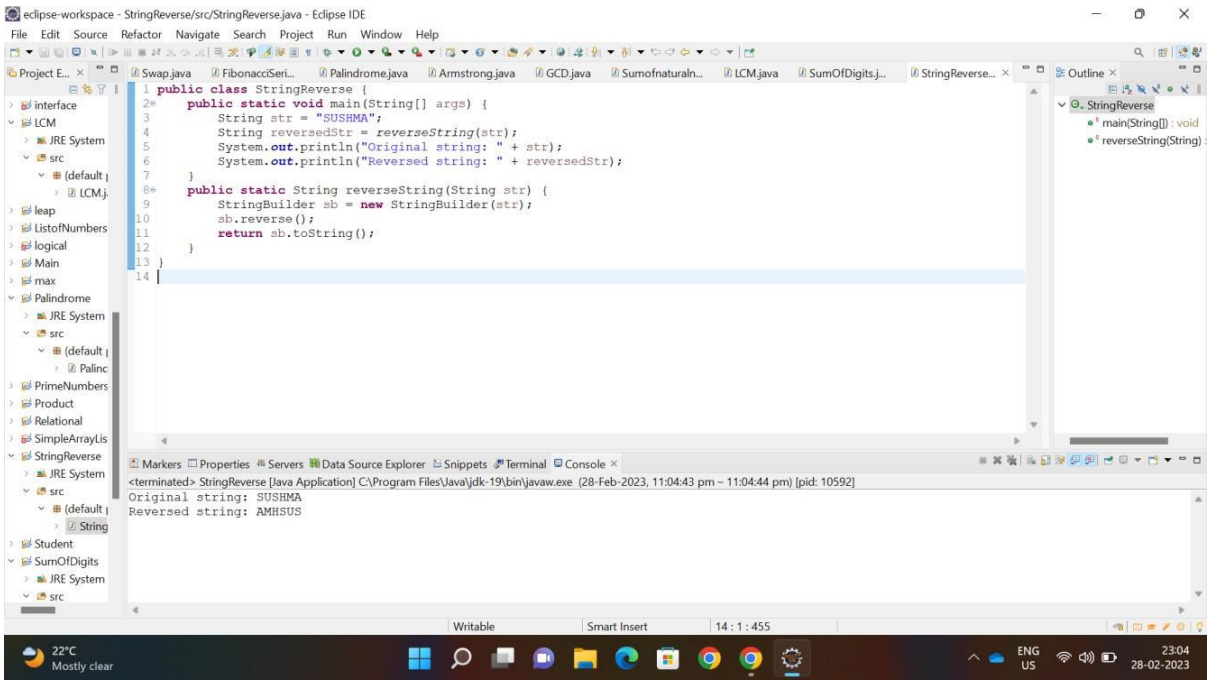
8. Write a Java program to calculate the sum of digits of a given number.

```
Enter a positive integer: 5467
The sum of the digits is: 22
```

```java
package sumofdigits;
import java.util.*;
public class sum {

    public static void main(String[] args) {
        Scanner s = new Scanner(System.in);
        System.out.print("Enter a positive integer: ");
        int num = s.nextInt();
        int sum = 0;
        while (num > 0) {
            sum =sum + num % 10;
            num =num / 10;
        }
        System.out.println("The sum of the digits is: " + sum);

    }

}
```

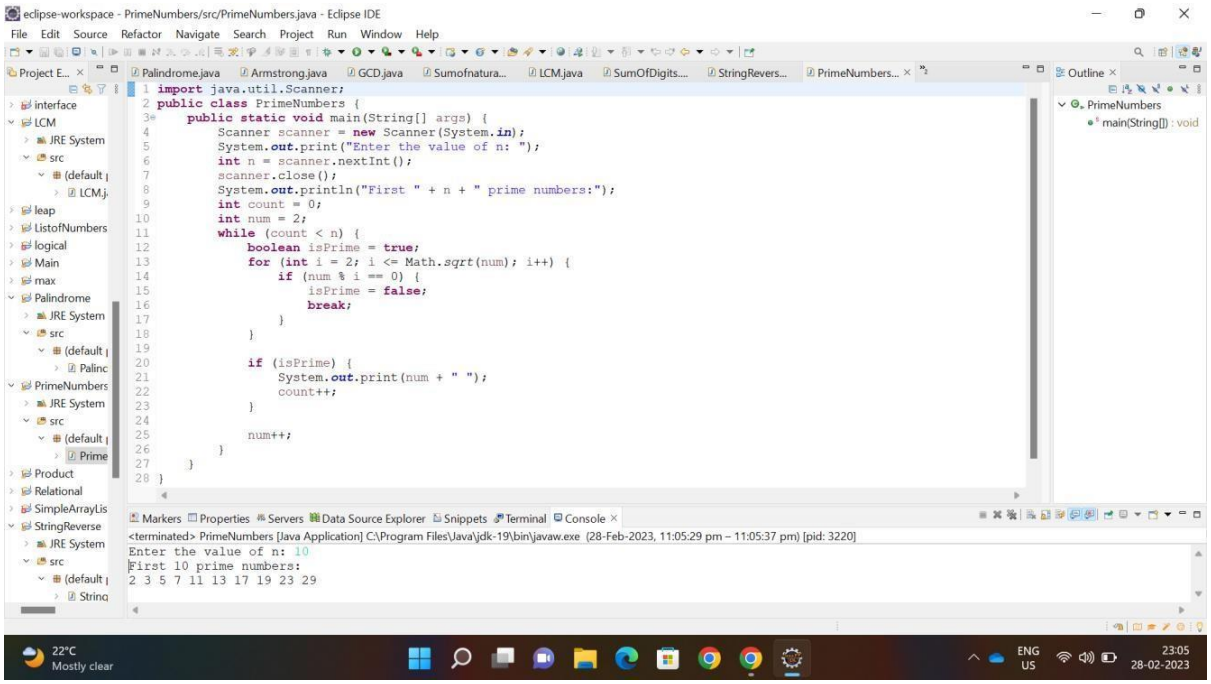
Codeshare link : https://codeshare.io/r9lE17

9. Write a Java program to reverse a string.



Codeshare link : https://codeshare.io/gL9E1V

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



Codeshare link : https://codeshare.io/xv4E1X