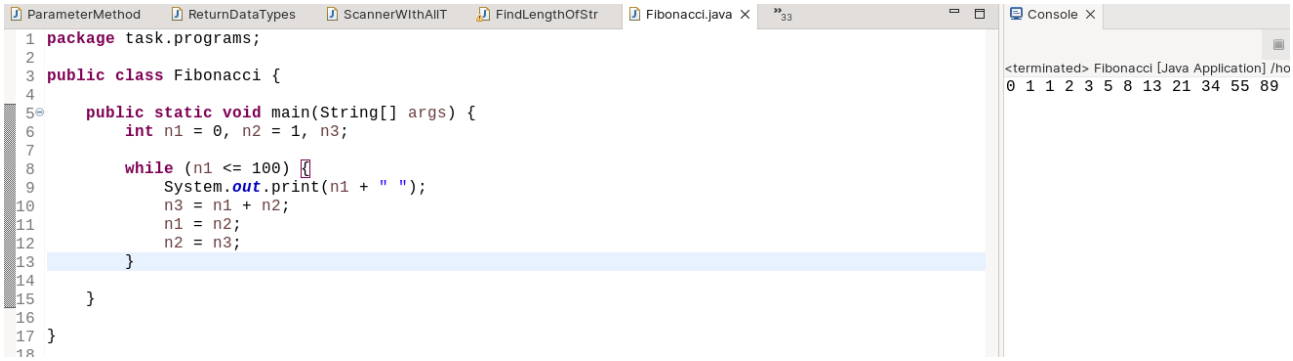
QUESTION 7:

Description: Write a program to print the fibonacci series of a number 1 to 100.

Example:

Output = 0,1,1,2,3,5.....

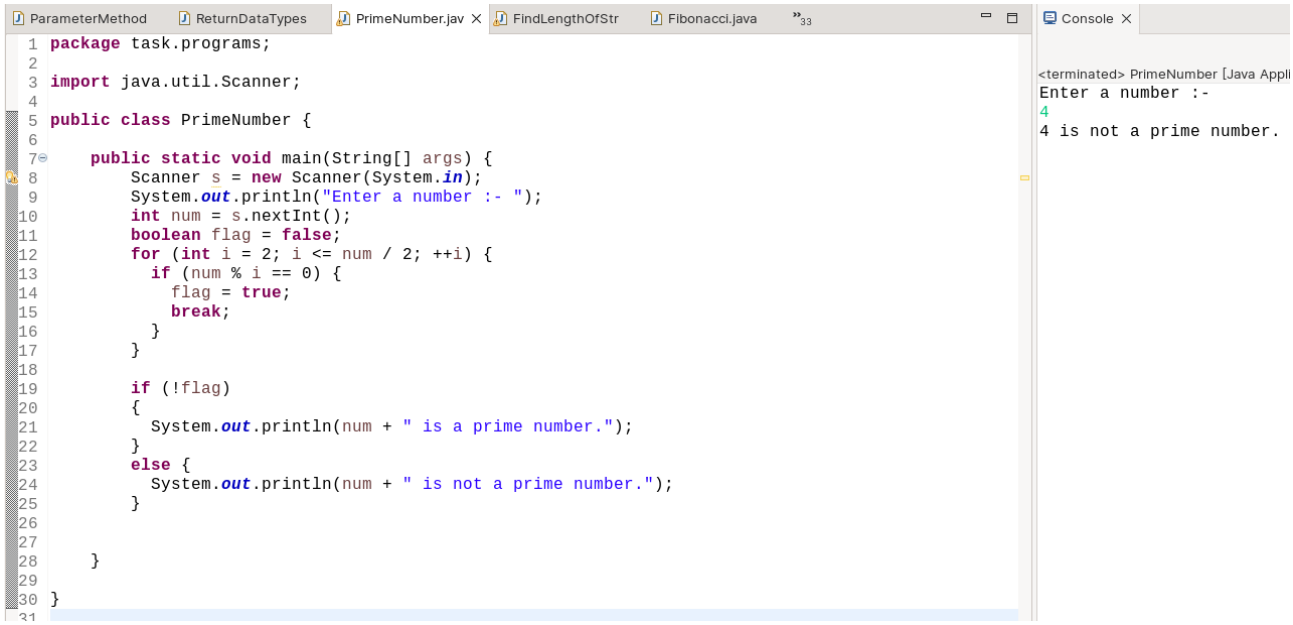


```java
package task.programs;

public class Fibonacci {

    public static void main(String[] args) {
        int n1 = 0, n2 = 1, n3;

        while (n1 <= 100) {
            System.out.print(n1 + " ");
            n3 = n1 + n2;
            n1 = n2;
            n2 = n3;
        }

    }

}
```

```
<terminated> Fibonacci [Java Application] /ho
0 1 1 2 3 5 8 13 21 34 55 89
```

QUESTION 8:

Description: Find prime number or not.



```java
package task.programs;

import java.util.Scanner;

public class PrimeNumber {

    public static void main(String[] args) {
        Scanner s = new Scanner(System.in);
        System.out.println("Enter a number :- ");
        int num = s.nextInt();
        boolean flag = false;
        for (int i = 2; i <= num / 2; ++i) {
          if (num % i == 0) {
            flag = true;
            break;
          }
        }

        if (!flag)
        {
          System.out.println(num + " is a prime number.");
        }
        else {
          System.out.println(num + " is not a prime number.");
        }


    }

}
```

```
<terminated> PrimeNumber [Java Appli
Enter a number :-
4
4 is not a prime number.
```

QUESTION 9:

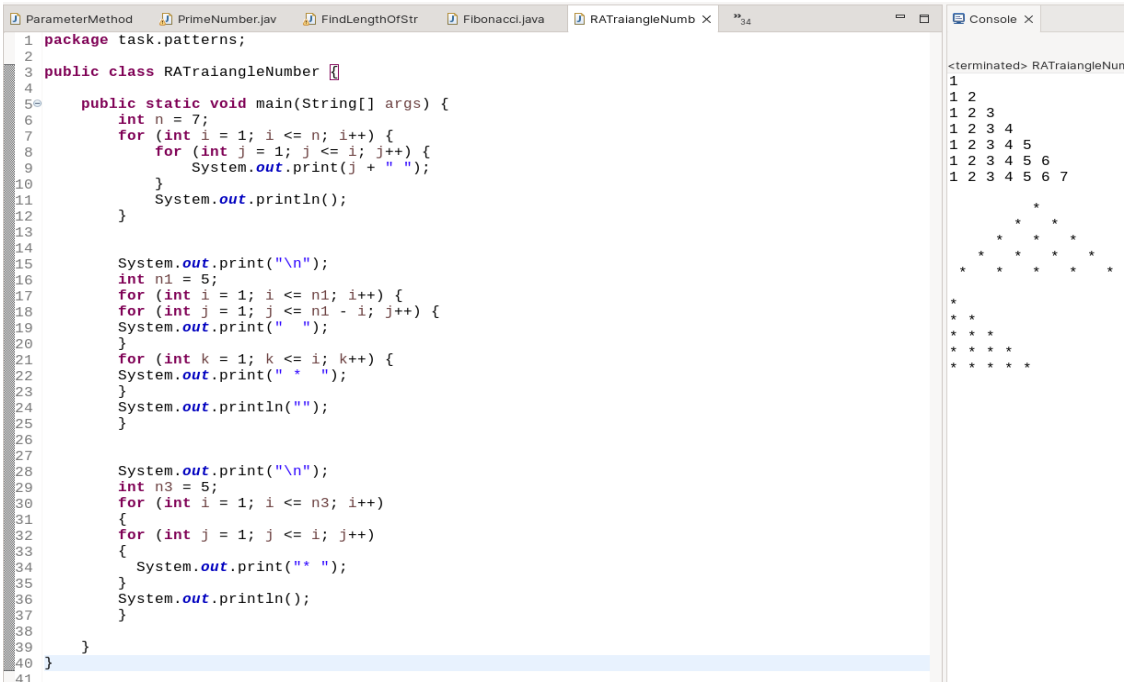
Description : Print the below patterns using for loop.

Output:

```
1
1 2
1 2 3
1 2 3 4
1 2 3 4 5
1 2 3 4 5 6
1 2 3 4 5 6 7
```

```
       *
      * *
     * * *
    * * * *
   *  * * * *
```

```
*
* *
* * *
* * * *
* * * * *
```



```
ParameterMethod  PrimeNumber.jav  FindLengthOfStr  Fibonacci.java  RATraiangleNumb  »34

1  package task.patterns;
2
3  public class RATraiangleNumber {
4
5      public static void main(String[] args) {
6          int n = 7;
7          for (int i = 1; i <= n; i++) {
8              for (int j = 1; j <= i; j++) {
9                  System.out.print(j + " ");
10             }
11             System.out.println();
12         }
13
14
15         System.out.print("\n");
16         int n1 = 5;
17         for (int i = 1; i <= n1; i++) {
18         for (int j = 1; j <= n1 - i; j++) {
19         System.out.print("  ");
20         }
21         for (int k = 1; k <= i; k++) {
22         System.out.print(" *  ");
23         }
24         System.out.println("");
25         }
26
27
28         System.out.print("\n");
29         int n3 = 5;
30         for (int i = 1; i <= n3; i++)
31         {
32         for (int j = 1; j <= i; j++)
33         {
34           System.out.print("* ");
35         }
36         System.out.println();
37         }
38
39     }
40 }
41

Console

<terminated> RATraiangleNum
1
1 2
1 2 3
1 2 3 4
1 2 3 4 5
1 2 3 4 5 6
1 2 3 4 5 6 7

          *
        *   *
      *   *   *
    *   *   *   *
  *   *   *   *   *

*
* *
* * *
* * * *
* * * * *
```

QUESTION 10:

Description: Find Amstrong number or not

PrimeNumber.jav | FindLengthOfStr | Fibonacci.java | RATraiangleNumb | AmstrongNumber. | »35

```java
package task.programs;
import java.util.Scanner;
public class AmstrongNumber {

    public static void main(String[] args) {
           int num = 153, number, temp, total = 0;

            number = num;
            while (number != 0)
            {
                temp = number % 10;
                total = total + temp*temp*temp;
                number /= 10;
            }

            if(total == num)
            {
                System.out.println(num + " is an Armstrong number");
            }
            else
            {
                System.out.println(num + " is not an Armstrong number");
            }

```

Console

```
<terminated> AmstrongNumber [Java Appli
153 is an Armstrong number
```

QUESTION 11:

Description: Reverse the number

PrimeNumber.jav | Fibonacci.java | RATraiangleNumb | AmstrongNumber. | ReverseNumber.j | »36

```java
package task.programs;

import java.util.Scanner;

public class ReverseNumber {

    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);
        System.out.print("Enter a number: ");
        int num = scanner.nextInt();

        int reversed = 0;

        while (num != 0) {
            int digit = num % 10;
            reversed = reversed * 10 + digit;
            num /= 10;
        }

        System.out.println("Reversed number: " + reversed);

    }

}
```

Console

```
<terminated> ReverseNumber [J
Enter a number: 123
Reversed number: 321
```

QUESTION 12:

Description: Count of the number

PrimeNumber.jav | RATraiangleNumb | AmstrongNumber. | ReverseNumber.j | CountOfaDigit.j

```java
package task.programs;

import java.util.Scanner;

public class CountOfaDigit {

    public static void main(String[] args) {
        Scanner s = new Scanner(System.in);
        System.out.println("Enter a number :- ");
        long digit = s.nextLong();
        int count = 0;
        while (digit > 0) {
            digit = digit / 10;
            count++;
        }
        System.out.println("The given number count is : " + count);

    }

}
```

Console

```
<terminated> CountOfaDigit [Java Application]
Enter a number :-
89289382983928938
The given number count is : 17
```

QUESTION 13:

Description: Sum of the number

Example:

Input = 123
Output = 6

```java
package task.programs;

import java.util.Scanner;

public class SumofaNumber {

    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);
        System.out.print("Enter a number: ");
        int num = scanner.nextInt();

        int sum = 0;

        while (num != 0) {
            int digit = num % 10;
            sum += digit;
            num /= 10;
        }

        System.out.println("Sum of digits: " + sum);

    }

}
```

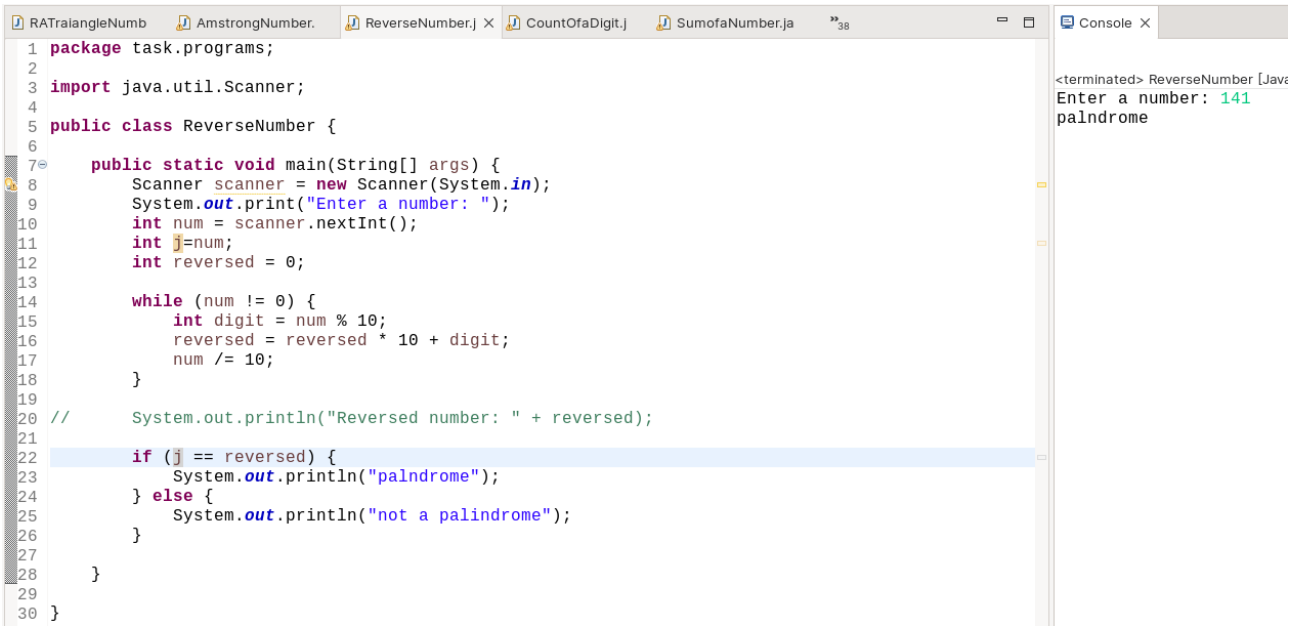
```
<terminated> SumofaNumber [Ja
Enter a number: 123
Sum of digits: 6
```

QUESTION 14:

Description: Verify the number is palindrome number not

Example:

Input = 141
Output = Palindrome




```java
package task.programs;

import java.util.Scanner;

public class ReverseNumber {

    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);
        System.out.print("Enter a number: ");
        int num = scanner.nextInt();
        int j=num;
        int reversed = 0;

        while (num != 0) {
            int digit = num % 10;
            reversed = reversed * 10 + digit;
            num /= 10;
        }

//      System.out.println("Reversed number: " + reversed);

        if (j == reversed) {
            System.out.println("palndrome");
        } else {
            System.out.println("not a palindrome");
        }

    }

}
```