Solus Partie 1 Exo Tableaux & Boucle

```java
public class Exo1 {
    public static void threeMultiples(int max) {
        for (int i = 0; i <= max; i++) {
            if (i % 3 == 0) {
                System.out.println(i);
            }
        }
    }

    public static void main(String[] args) {
        threeMultiples(1000);
    }
}
```

```java
public class Exo2 {
    public static void fibonacci(int num) {
        int first = 0;
        int second = 1;
        int actual = 1;

        System.out.println(first);
        for (int i = 0; i < num; i++) {
            System.out.println(actual);
            if (actual > num) {
                break;
            }

            actual = first + second;

            first = second;

            second = actual;
        }
    }

    public static void main(String[] args) {
        fibonacci(20);
    }
}
```

```java
import java.util.Scanner;

public class Exo3 {
    public static void multiplicationTable(int n) {
        System.out.println("Multiplication table of " + n + ":");
        for (int i =0; i <= 10; i++) {
            System.out.println(i + " * " + n + " = " + (i * n));
        }
    }

    public static void main(String[] args) {
        multiplicationTable(7);
//         console();
    }

    public static void console() {
        Scanner sc = new Scanner(System.in);

        menu();
        int choice = sc.nextInt();

        while (true) {
            if (choice == 2) {
                System.out.println("Bye");
                break;
            } else if (choice == 1) {
                System.out.print("Type your number: ");
                int number = sc.nextInt();
                multiplicationTable(number);
                menu();
                choice = sc.nextInt();
            } else {
                System.out.println("wrong");
                menu();
                choice = sc.nextInt();
            }
        }

    }

    public static void menu() {
        System.out.println("Type 1: to get a table of
multiplications");
        System.out.println("Type 2: to exit");
        System.out.print("Your choice: ");
    }
}
```

```java
public class Exo4 {
    public static int factorielle(int n) {
        if (n == 0) {
            return 1;
        }
        int result = 1;
        for (int i = n; i >= 0; i--) {
            result = result * i;
        }
        return result;
    }

    public static void main(String[] args) {
        System.out.println(factorielle(5));
    }
}
```

```java
public class Exo5 {
    public static void main(String[] args) {
        specialSquare(10);
    }

    static void specialSquare(int size) {
        for (int i = 0;i < size; i++) {
            for (int j = 0; j < size; j++) {
                int symbol = i + j;
                if (symbol % 2 == 0) {
                    System.out.print("#");
                    symbol++;
                } else {
                    System.out.print("-");
                    symbol++;
                }
            }
            System.out.println();
        }
    }
}
```