Sprint 8: Debugging Java Program

Practice Challenge - 8.1 – Debug Fibonacci series

Given below the function `fibonacci(int n)` which finds the first n Fibonacci series. Create a program in java using below function and debug the program.

```
public static int fibonacci(int n) {

        if(n<1) {

            return 0;

        }

       int sum = 0;

        int a = 1;

        int b = 1;

        for (int i=0;i<n;i++) {

            a = sum;

            sum+=b;

            b=a;

        }return sum;}
```

Task 2: Use IntelliJ for advance Debugging:

a. Debug the code by using simple print statement.

Task 2: Use IntelliJ for advance Debugging:

b. Set breakpoints
c. Watch variables
d. Evaluate expression

Practice Challenge - 8.2 – Debug Digital Calendar Program

Note: Use solution repository of Practice 5.2.

Debug Practice 5.2 solution by using following debugging strategies

Task 1: Apply simple debugging techniques:

a. Debug the code by using simple print statement.

Task 2: Use IntelliJ for advance Debugging:

e. Set breakpoints
f. Watch variables
g. Evaluate expression

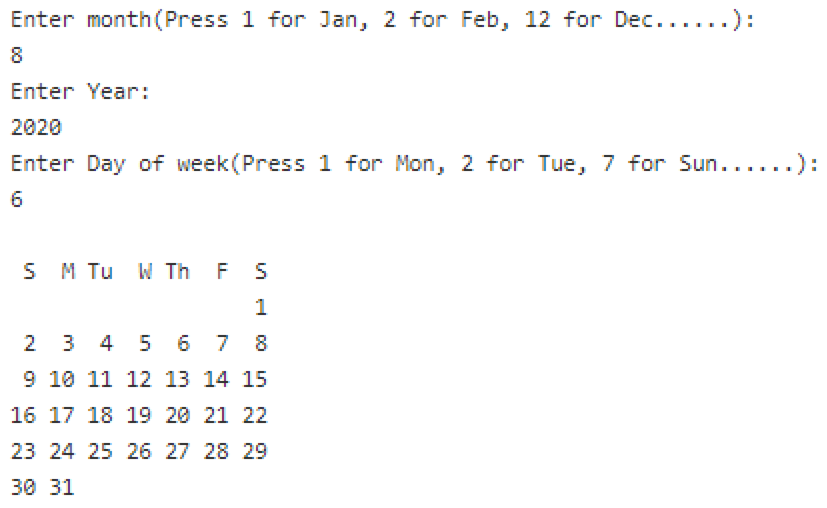
For reference: Practice 5.2: Problem Statement

A software company wishes to help its employees plan and execute their projects in a better manner. The employer intends to have a uniform system that allows the employees to check and fill the progress details of their project. The company plans to release a digital calendar that will display the days of the month on a screen that looks similar to an analog calendar. It will take the day, month and year as input from the user and display it on the calendar.

Points to remember:

1. Consider leap years while formulating the solution.
2. The calendar loop should display the days of the month and ensure that only 7 dates are displayed in one row. In order to check the same use the below condition while looping.

```
((dayOfTheMonth + firstDayOfTheMonth)%7 == 0) || dayOfTheMonth   ==
daysInMonth
```



```
Enter month(Press 1 for Jan, 2 for Feb, 12 for Dec......):
8
Enter Year:
2020
Enter Day of week(Press 1 for Mon, 2 for Tue, 7 for Sun......):
6

 S  M Tu  W Th  F  S
                   1
 2  3  4  5  6  7  8
 9 10 11 12 13 14 15
16 17 18 19 20 21 22
23 24 25 26 27 28 29
30 31
```