



FEU INSTITUTE OF TECHNOLOGY

**COLLEGE OF COMPUTER STUDENTS
INFORMATION TECHNOLOGY DEPARTMENT**

IT0049

(Web System and Technologies)

TECHNICAL SUMMATIVE ASSESSMENT

1

Module 1 – Module 3

Create a controller class, "PrintSequence" that will generate a view according to the descriptions provided in each methods. Then, in your newly created controller create 3 different methods, namely :

1.) MarioFlagPole

- Accepts 1 argument, which is the Flag Pole Size.
- The segment that handles your argument should only accept numbers.

Example:

Argument : 5

Output :

```

      12
     345
    6789
   1011121314
  151617181920
```

2.) BoxedFrame

- Accepts 2 arguments
- The segments that refers to your arguments should only accept numbers.

Arguments:

1 - Row Size

2 - Column Size

Examples:

Arguments:

1 = 8

2 = 5

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

Arguments:

1 = 8

2 = 6

* *

* ** *

* ** *

* ** *

* ** *

* *

Arguments:

1 = 8

2 = 7

* *

* **** *

* **** *

* **** *

* **** *

* *

Arguments:

1 = 5

2 = 8

* *

* ***** *

* *

3.) HoneyComb

- Accepts 2 arguments

- The segments that refers to your arguments should only accept numbers.

Args:

1 - Row Size

2 - Column Size

Example :

Arguments :

1 = 1

2 = 1

 **

 * *

* *

* *

 * *

 **

Arguments :

1 = 1

2 = 2

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

Arguments :

1 = 2

2 = 2

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

Note: The following rubrics/metrics will be used to grade students' output in the Technical Summative Assessment 1.

Program (100 pts.)	(Excellent)	(Good)	(Fair)	(Poor)
Program execution (20pts)	Program executes correctly with no syntax or runtime errors (18-20pts)	Program executes with less than 3 errors (15-17pts)	Program executes with more than 3 errors (12-14pts)	Program does not execute (10-11pts)
Correct output (20pts)	Program displays correct output with no errors (18-20pts)	Output has minor errors (15-17pts)	Output has multiple errors (12-14pts)	Output is incorrect (10-11pts)
Design of output (10pts)	Program displays more than expected (10pts)	Program displays minimally expected output (8-9pts)	Program does not display the required output (6-7pts)	Output is poorly designed (5pts)
Design of logic (20pts)	Program is logically well designed (18-20pts)	Program has slight logic errors that do no significantly affect the results (15-17pts)	Program has significant logic errors (3-5pts)	Program is incorrect (10-11pts)
Standards (20pts)	Program code is stylistically well designed (18-20pts)	Few inappropriate design choices (i.e. poor variable names, improper indentation) (15-17pts)	Several inappropriate design choices (i.e. poor variable names, improper indentation) (12-14pts)	Program is poorly written (10-11pts)
Delivery (10pts)	The program was delivered on time. (10pts)	The program was delivered a day after the deadline. (8-9pts)	The program was delivered two days after the deadline. (6-7pts)	The program was delivered more than two days after the deadline. (5pts)