LAB ASSIGNMENTS
PYTHON PROGRAMMING LAB
MCA 1st Year 1st Semester, 2022
Subject Code: MCAP1112

Day 1

1. i) Write a script that reads two integers, and prints the average of the two numbers.
   ii) Modify 1.i) to print the larger of the two numbers.

2. Write a script that reads three floating point numbers, and does the following:
   i) It prints the smallest and largest among the three.
   ii) It prints the average of the three numbers up to 2 decimal places.

3. Write a script that prompts the user to input a year and determine whether that year is a leap year or not.

4. Write scripts to print each of the following output pattern. The number of rows to be printed is to be accepted as user input.

i)

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

ii)

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

iii)

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

iv)

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

v)

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

vi)

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

vii)

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

viii)

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

ix)

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

x)

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

xi)

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

xii)

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

xiii)

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

xiv)

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

xv)

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