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| **Branch/Semester** | B.Tech CSE (AI & ML) / Semester I |
| **Subject Name:** | Computer Programming |
| **Subject Code:** | 01CE2101 |
| **Assignment:** | Practice Questions (Pattern Printing) |
| **Date:** | 27th August 2025 |
| **Faculty Name:** | Prof. Abhishek Chauhan |

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| **Sr.** | **Question** | **CO** | **BL** |
| **1** | Print a right-angled triangle of stars.  \*  \*\*  \*\*\*  \*\*\*\*  \*\*\*\*\* | CO2 | BL1 |
| **2** | Print an inverted right-angled triangle of stars.  \*\*\*\*\*  \*\*\*\*  \*\*\*  \*\*  \* | CO2 | BL1 |
| **3** | Print a square of stars.  \*\*\*\*\*  \*\*\*\*\*  \*\*\*\*\*  \*\*\*\*\*  \*\*\*\*\* | CO2 | BL1 |
| **4** | Print a hollow square of stars.  \*\*\*\*\*  \* \*  \* \*  \* \*  \*\*\*\*\* | CO2 | BL2 |
| **5** | Print a pyramid of stars.  \*  \*\*\*  \*\*\*\*\*  \*\*\*\*\*\*\*  \*\*\*\*\*\*\*\*\* | CO2 | BL2 |
| **6** | Print an inverted pyramid of stars.  \*\*\*\*\*\*\*\*\*  \*\*\*\*\*\*\*  \*\*\*\*\*  \*\*\*  \* | CO2 | BL2 |
| **7** | Print a right-angled triangle of numbers (1, 12, 123…)  1  12  123  1234  12345 | CO2 | BL3 |
| **8** | Print a right-angled triangle with repeating numbers (1, 22, 333…)  1  22  333  4444  55555 | CO2 | BL3 |
| **9** | Print Floyd’s Triangle (continuous numbers).  1  2 3  4 5 6  7 8 9 10 | CO2 | BL3 |
| **10** | Print a triangle with letters (A, AB, ABC…)  A  AB  ABC  ABCD  ABCDE | CO2 | BL3 |
| **11** | Print a diamond pattern of stars.  \*  \*\*\*  \*\*\*\*\*  \*\*\*\*\*\*\*  \*\*\*\*\*\*\*\*\*  \*\*\*\*\*\*\*  \*\*\*\*\*  \*\*\*  \* | CO2 | BL4 |
| **12** | Print a hollow pyramid pattern.  \*  \* \*  \* \*  \* \*  \*\*\*\*\*\*\*\*\* | CO2 | BL4 |
| **13** | Print a number diamond pattern.  1  121  12321  1234321  123454321 | CO2 | BL5 |
| **14** | Print Pascal’s Triangle (numbers).  1  1 1  1 2 1  1 3 3 1  1 4 6 4 1 | CO2 | BL5 |
| **15** | Print a mixed pattern (stars + numbers).  \*1  \*\*12  \*\*\*123  \*\*\*\*1234 | CO2 | BL6 |