

Applied Coding - Language Skill (Repetitions-Nested Loops)

Solve the following problems using computer with help of Python/C++/Java/C# language as means of communication.

Problem 1: Right Triangular Pattern

Given the value of n, write a program that displays the following pattern. For the given value of 4 for n, the pattern looks like this:

* * * * * * * * * *

Problem 2: Left Triangular Pattern

Given the value of n, write a program that displays the following pattern. For the given value of 4 for n, the pattern looks like this:

Problem 3: Downward Right Triangular Pattern

Given the value of n, write a program that displays the following pattern. For the given value of 4 for n, the pattern looks like this:

* * * * * * * * * *

Problem 4: Downward Left Triangular Pattern

Given the value of n, write a program that displays the following pattern. For the given value of 4 for n, the pattern looks like this:

* * * * * * * * *



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Problem 5: Pyramid Pattern

Given the value of n, write a program that displays the following pattern. For the given value of 4 for n, the pattern looks like this:

Problem 6: Inverted Pyramid Pattern

Given the value of n, write a program that displays the following pattern. For the given value of 4 for n, the pattern looks like this:

* * * * * * * * * * * * * * * *

Problem 7: Diamond Pattern

Given the value of n, write a program that displays the following pattern. For the given value of 4 for n, the pattern looks like this:

Problem 8: Sandglass Pattern

Given the value of n, write a program that displays the following pattern. For the given value of 4 for n, the pattern looks like this:

* * * * * * * * * * * * *

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Problem 9: Multiplication Table

In this exercise you will create a program that displays a multiplication table that shows the products of all combinations of integers from 1 times 1 up to and including 10 times 10. Your multiplication table should include a row of labels across the top of it containing the numbers 1 through 10. It should also include labels down the left side consisting of the numbers 1 through 10. The expected output from the program is shown below:

	1	2	3	4	5	6	7	8	9	10
1	1	2	3	4	5	6	7	8	9	10
2	2	4	6	8	10	12	14	16	18	20
3	3	6	9	12	15	18	21	24	27	30
4	4	8	12	16	20	24	28	32	36	40
5	5	10	15	20	25	30	35	40	45	50
6	6	12	18	24	30	36	42	48	54	60
7	7	14	21	28	35	42	49	56	63	70
8	8	16	24	32	40	48	56	64	72	80
9	9	18	27	36	45	54	63	72	81	90
10	10	20	30	40	50	60	70	80	90	100