Pyramid Pattern using Python

Creating patterns by using a programming language is not less than designing an algorithm for a beginner. One of the easiest patterns that you can create is a pyramid that looks like a triangle. So to get your hands on pattern programming let's start by creating a pyramid pattern using Python.

Pyramid Pattern using Python

Writing pattern programs will help you improve your coding skills and problems based on pattern programs are also commonly asked in coding interviews. So the time spent on writing pattern programs will always be worthwhile. A pyramid pattern is like a triangle that is not empty, so to create such a pattern using Python you need to use for loops to design a pyramid structure using stars, numbers, alphabets, or any other symbol. Below is how you can write a Python program to print a pyramid using Python:

Example of another patterns

```
In [ ]:
```

Numbers without reassigning

```
In [2]: # Python 3.x code to demonstrate star pattern
        # Function to demonstrate printing pattern of numbers
        def contnum(n):
                # initializing starting number
                num = 1
                # outer loop to handle number of rows
                for i in range(0, n):
                         # not re assigning num
                         \# num = 1
                         # inner loop to handle number of columns
                         # values changing acc. to outer loop
                         for j in range(0, i+1):
                                 # printing number
                                 print(num, end=" ")
                                 # incrementing number at each column
                                 num = num + 1
                         # ending line after each row
                         print("\r")
        n = 5
        # sending 5 as argument
        # calling Function
        contnum(n)
        1
        2 3
        4 5 6
        7 8 9 10
        11 12 13 14 15
In [ ]:
```

Character Pattern

```
In [3]: # Python 3.x code to demonstrate star pattern

# Function to demonstrate printing pattern of alphabets
def alphapat(n):

# initializing value corresponding to 'A'

# ASCII value
num = 65
```

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# outer loop to handle number of rows
                # 5 in this case
                for i in range(0, n):
                        # inner loop to handle number of columns
                        # values changing acc. to outer loop
                        for j in range(0, i+1):
                                # explicitly converting to char
                                ch = chr(num)
                                # printing char value
                                print(ch, end=" ")
                        # incrementing number
                        num = num + 1
                        # ending line after each row
                        print("\r")
        # Driver Code
        n = 5
        alphapat(n)
        Α
        ВВ
        CCC
        DDDD
        EEEEE
In [ ]:
```

Continuous Character pattern

A
B C
D E F
G H I J
K L M N O

Summary

I have created this structure of a pyramid using stars, you can also use alphabets, numbers or any symbol by replacing them with "*". So this is how you can easily create a pyramid pattern by using the Python programming language.

```
In [ ]:
```