Python Pattern Programs with Output

1. Right-Angled Triangle (Left Aligned)

Code:

```
for i in range(1, 6):
    print("*" * i)
```

Output:

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

2. Right-Angled Triangle (Right Aligned)

Code:

```
for i in range(1, 6):
    print(" " * (5 - i) + "*" * i)
```

Output:

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

3. Pyramid Pattern

Code:

```
for i in range(1, 6):
    print(" " * (5 - i) + "*" * (2 * i - 1))
```

Output:

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

4. Inverted Pyramid

Code:

```
for i in range(5, 0, -1):
    print(" " * (5 - i) + "*" * (2 * i - 1))
```

Output:

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

5. Diamond Pattern

Code:

```
for i in range(1, 6):
    print(" " * (5 - i) + "*" * (2 * i - 1))
for i in range(4, 0, -1):
    print(" " * (5 - i) + "*" * (2 * i - 1))
```

Output:

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

6. Number Triangle

Code:

```
for i in range(1, 6):
    for j in range(1, i + 1):
        print(j, end=" ")
    print()
```

Output:

```
1
1 2
1 2 3
1 2 3 4
1 2 3 4 5
```

7. Pyramid of Numbers

Code:

```
num = 1
for i in range(1, 6):
    print(" " * (5 - i), end="")
    for j in range(i):
        print(num, end=" ")
        num += 1
    print()
```

Output:

```
    1
   2 3
  4 5 6
 7 8 9 10
11 12 13 14 15
```

8. Inverted Number Triangle

Code:

```
for i in range(5, 0, -1):
    for j in range(1, i + 1):
        print(j, end=" ")
    print()
```

Output:

```
1 2 3 4 5
1 2 3 4
1 2 3
1 2
1
```

9. Alphabet Triangle

Code:

```
ascii_value = 65
for i in range(1, 6):
    for j in range(i):
        print(chr(ascii_value + j), end=" ")
    print()
```

Output:

```
A
```

```
A B
A B C
A B C D
A B C D E
```

10. Alphabet Pyramid

Code:

```
ascii_value = 65
for i in range(1, 6):
    print(" " * (5 - i), end="")
    for j in range(i):
        print(chr(ascii_value + j), end=" ")
    print()
```

Output:

```
    A
   A B
  A B C
 A B C D
A B C D E
```

11. Inverted Alphabet Triangle

Code:

```
ascii_value = 65
for i in range(5, 0, -1):
    for j in range(i):
        print(chr(ascii_value + j), end=" ")
    print()
```

Output:

```
A B C D E
A B C D
A B C
A B
A
```