

## ▼ Pattern Printing

```
N = 6
```

```
for r in range(1, N + 1):  
    # we need to print * r times over here  
    for c in range(r):  
        print('*', end='')  
    print()
```

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

## ▼ Pattern 2

```
N = 5
```

```
for r in range(1, N + 1):  
    # we need to print * r times over here  
    for c in range(1, r + 1):  
        if c % 2 == 1:  
            print('*', end='')  
        else:  
            print(c, end='')  
    print()
```

```
*  
*2  
*2*  
*2*4  
*2*4*
```

## ▼ Challenge 3

```
N = 5
```

```
for r in range(1, N + 1):
    # we need to print * (N - r + 1) times over here
    # print(N - r + 1)
    for c in range(N - r + 1):
        print('*', end='')
    print()

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

## ▼ Challenge 4: Pattern with Space

```
N = 5
```

```
for r in range(N):
    print(' ', end='')
    for c in range(N - 1):
        print('.', end='')
    print('*', end='')
    print()

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

## ▼ Challenge 5

```
N = 10
```

```
for r in range(1, N + 1):
    # print (N - r) spaces
    for c in range(N - r):
        print(' ', end='')
    # print r stars
    for c in range(r):
        print('*', end='')
    # print a new line
    print()
```

```

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

```

## ▼ Challenge 6: Pyramid

```
N = 10
```

```

for r in range(1, N + 1):
    # print (N - r) spaces
    for c in range(N - r):
        print(' ', end='')

    # print (2*r - 1) stars
    for c in range(2*r - 1):
        print('*', end='')

    # print (N - r) spaces
    for c in range(N - r):
        print(' ', end='')

    # print the new line
    print()

```

```

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

```

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completed at 23:07

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