

Pyramid Pattern Program

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1. Star Pattern Program to Print Left Half Pyramid

```
# Python star pattern to print left half pyramid
```

```
def pattern(n):  
    for i in range(1, n+1):  
        # print star  
        print("* " * i)  
  
# take input  
n = int(input('Enter number of row: '))  
  
# function call  
pattern(n)
```

Output:-

Enter number of row: 5

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

2. Star Pattern Program to Print Downward Left Half Pyramid

```
# Python star pattern to print downward left half triangle
```

```
def pattern(n):  
    for i in range(n):  
        # print star  
        print("* " * (n-i))
```

```
# take input
n = int(input('Enter number of row: '))

# function call
pattern(n)
```

Output:-

Enter number of row: 6

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

3. Star Pattern Program to Print Right Half Pyramid

```
# Python star pattern to print right half triangle
```

```
def pattern(n):
    for i in range(1, n+1):
        # print star
        print(" " * (n-i) + "*" * i)
```

```
# take input
n = int(input('Enter number of row: '))

# function call
pattern(n)
```

Output:-

Enter number of row: 6

```

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

4. Star Pattern Program to Print Downward Right Half Pyramid

```
# Python star pattern to print reverse right half pyramid
```

```
def pattern(n):  
    for i in range(n-1):  
        for j in range(i+1):  
            # printing spaces  
            print(" ",end=" ")  
  
        for k in range(n-i-1):  
            # printing stars  
            print("* ",end="")  
        print()
```

```
# take inputs
```

```
n = int(input('Enter the number of rows: '))
```

```
# calling function
```

```
pattern(n)
```

Output:-

```
Enter number of row: 5
```

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

5. Star Pattern Program to Print Pyramid or Triangle

```
# Python star pattern program to print triangle
```

```
def pattern(n):  
    for i in range(n):  
        # print star  
        print(" " * (n-i-1) + "*" * (2*i+1))
```

```
# take input
```

```
n = int(input('Enter number of row: '))
```



```
# function call
pattern(n)
```

Output:-

Enter number of row: 6

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

6. Star Pattern Program to Print Reverse Pyramid or Triangle

Python program to print reverse pyramid star pattern

```
def pattern(n):
    # number of spaces
    a = (2 * n) - 2
    for i in range(n, -1, -1):
        for j in range(a, 0, -1):
            print(end=" ")

        # incrementing a after each loop
        a = a + 1
        for j in range(0, i+1):
            # printing stars
            print("* ",end="")
        print("\r")

# take inputs
n = int(input('Enter the number of rows: '))

# calling function
pattern(n)
```

Output:-

Enter the number of rows: 5

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

7. Star Pattern Program to Print Scalene Triangle

Python program to print scalene triangle star pattern

```
def pattern(n):
    # number of spaces
    a = n - 1
    for i in range(n):
        for j in range(a):
            print(end=" ")

        # decrementing a after each loop
        a = a - 1
        for j in range(i+1):
            # printing stars
            print("* ",end=" ")
        print("\r")

# take inputs
n = int(input('Enter the number of rows: '))

# calling function
pattern(n)
```

Output:-

Enter number of row: 6

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

9. Star Pattern Program to Print Right Pascal Triangle

```
# Python star pattern to print right pascal triangle

def pattern(n):
    for i in range(n):
        print('* ' * (i + 1))
    for i in range(n):
        print('* ' * (n - i - 1))

# take input
n = int(input('Enter number of row: '))

# function call
pattern(n)
```

Output:-

Enter number of row: 3

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

10. Star Pattern Program to Print Diamond

```
# Python star pattern program to print diamond

def pattern(n):
    # print upper pyramid
    for i in range(n):
        for j in range(n-i-1):
            print(" ", end="")
        for j in range(2*i+1):
            # printing stars
            print("*", end="")
        print()
```



```
# print downward pyramid
for i in range(n-1):
    for j in range(i+1):
        print(" ", end="")
    for j in range(2*(n-i-1)-1):
        # printing stars
        print("*", end="")
    print()

# take inputs
n = int(input('Enter the number of rows: '))

# calling function
pattern(n)
```

Output:-

Enter the number of rows: 5

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

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