# Print Pyramids and Patterns

# Step 1 Printing basic building blocks

# Size : How many row you want in the pattern Putting together nested loops

#### Print and Println statement

#### output

## Print and Println statement

## output

# Square pattern

```
int = 5
for (int i =1; i<=n; i++) {
  for (int j =0; j<n; j++) {
    system.out.print("*");
}
system.out.println();
}</pre>
```

#### output

## Increasing triangle pattern

```
int = 5
for (int i =1; i<=n; i++) {
   for (int j =1; j<i; j++) {
      system.out.print("*");
   }
system.out.println();</pre>
```

# Decreasing triangle pattern

```
int = 5
for (int i =1; i<=n; i++) {
   for (int j =i; j<=n; j++) {
      system.out.print("*");
   }
system.out.println();</pre>
```

# Left Triangle

```
int = 5
for (int i =1; i<=n; i++) {
   for (int j =i; j<=i; j++) {
      system.out.print(" ");
   }
for (int j =i; j<=n; j++) {
      system.out.print("* ");
}
system.out.println();
}</pre>
```

#### output

```
i = 1 *
i = 2 **
i = 3 ***
i = 4 ****
i = 5 ****
```

#### output

```
1 to 5 *****
2 to 5 ** **
3 to 5 ***
4 to 5 **
5 to 5 *
```

# Right Triangle

```
int = 5
for (int i = 1; i <= n; i ++) {
    for (int j = i; j < n; j ++) {
        system.out.print(" ");
}
for (int j = 1; j <= i; j ++) {
        system.out.print("* ");
}
system.out.println();
}

* i = 1

* * i = 2

Decreasing triangle of space
Increasing triangle of star
** i = 4

** * * * i = 5</pre>
```