

AP Tutorials

Java Programming classes under Aryan Singh

Week 6 Assignment

1.

```
1
2 2
3 3 3
4 4 4 4
5 5 5 5 5
6 6 6 6 6 6
```

2.

```
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3.

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```

1. Number-increasing Pyramid Pattern

```
import java.util.*;

public class GeeksForGeeks {
    // Function to demonstrate pattern
    public static void printPattern(int n)
    {
        int i, j;
        // outer loop to handle number of rows
        for (i = 1; i <= n; i++) {
            // inner loop to handle number of columns
            for (j = 1; j <= i; j++) {
                // printing column values upto the row
                // value.
            }
        }
    }
}
```

```

        System.out.print(j + " ");
    }

    // print new line for each row
    System.out.println();
}

// Driver Function
public static void main(String args[])
{
    int n = 6;
    printPattern(n);
}
}

```

2. Reverse Left Half Pyramid

```

import java.util.*;

public class GeeksForGeeks {
    // Function to demonstrate pattern
    public static void printPattern(int n)
    {
        int i, j;

        // calculating number of spaces
        int num = 2 * n - 2;

        // outer loop to handle rows
        for (i = n; i > 0; i--) {
            // inner loop to print spaces.
            for (j = 0; j < n - i; j++) {
                System.out.print(" ");
            }
            // Decrementing value of num after each loop
            num = num - 2;
            // inner loop to print stars.
            for (j = 0; j < i; j++) {
                System.out.print("*");
            }

            // printing new line for each row
            System.out.println();
        }
    }
}

```

```

// Driver Function
public static void main(String args[])
{
    int n = 6;
    printPattern(n);
}
}

```

3. Reverse number triangle

```

import java.util.*;

public class GeeksForGeeks {

    // Function to demonstrate pattern
    public static void printPattern(int n)
    {
        int i, j;
        // outer loop to handle rows
        for (i = 1; i <= n; i++) {

            // inner loop to print spaces.
            for (j = 1; j < i; j++) {
                System.out.print(" ");
            }

            // inner loop to print value of j.
            for (j = i; j <= n; j++) {
                System.out.print(j + " ");
            }

            // printing new line for each row
            System.out.println();
        }
    }

    // Driver Function
    public static void main(String args[])
    {
        int n = 6;
        printPattern(n);
    }
}

```