

1. Pattern program1

```
public class Main {  
    public static void main(String[] args) {  
        int number=5;  
        for(int i=1;i<=number;++i){  
            for(int j=1;j<=i;++j){  
                System.out.print("*")  
            }  
            System.out.println();  
        }  
    }  
}
```

Output:

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

2. Pattern program2

```
public class Main {  
    public static void main(String[] args) {  
        int number = 5;  
        for (int i = 1; i <= number; ++i) {  
            for (int j = 1; j <= number - i; ++j) {  
                System.out.print(" ");  
            }  
            for (int k = 1; k <= i; ++k) {  
                System.out.print("*");  
            }  
            System.out.println();  
        }  
    }  
}
```

Output:

```
*
```

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

3. Patter program 3

```
public class Main {  
    public static void main(String[] args) {  
        int number = 5;  
        for (int i = 1; i <= number; ++i) {  
            for (int j = 1; j <= number - i; ++j) {  
                System.out.print(" ");  
            }  
            for (int k = 1; k <= i; ++k) {  
                System.out.print("* ");  
            }  
            System.out.println();  
        }  
    }  
}
```

Output:

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

4. Pattern program 4

```
public class Main {  
    public static void main(String[] args) {  
        int number = 5;  
        for (int i = 1; i <= number; ++i) {  
            for (int j = 1; j <= number - i; ++j) {
```

```

        System.out.print(" ");
    }
    for (int k = 1; k <= 2*i-1; ++k) {
        System.out.print("*");
    }
    System.out.println();
}
}
}

```

Output:

```

    *

   ***

  *****

 *****
*****

```

5. Pattern program 5

```

public class Main {
    public static void main(String[] args) {
        int number = 5;
        for (int i = 1; i <= number; ++i) {
            for (int j = 1; j <= number - i; ++j) {
                System.out.print(" ");
            }
            for (int k = 1; k <= 2*i-1; ++k) {
                System.out.print("*");
            }
            System.out.println();
        }

        for (int i = number-1; i >=0; --i) {
            for (int j = 1; j <= number - i; ++j) {
                System.out.print(" ");
            }
            for (int k = 1; k <= 2*i-1; ++k) {
                System.out.print("*");
            }
            System.out.println();
        }
    }
}

```

Output:

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

6. Pattern program 6

```
public class Main {
    public static void main(String[] args) {
        int number = 5;
        for (int i = 1; i <= number; ++i) {
            for (int k = 0; k <= number-i; ++k) {
                System.out.print("*");
            }
            System.out.println();
        }
    }
}
```

Output:

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

7. Pattern program 7

```
public class Main {  
    public static void main(String[] args) {  
        int number = 5;  
        for (int i = number; i >=0; --i) {  
            for (int j = 1; j <= number - i; ++j) {  
                System.out.print(" ");  
            }  
            for (int k = 1; k <= i; ++k) {  
                System.out.print("* ");  
            }  
            System.out.println();  
        }  
    }  
}
```

output:

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

8. Pattern program 8

```
public class Main {  
    public static void main(String[] args) {  
        int number = 5;  
        for (int i = number; i >=0; --i) {  
            for (int j = 1; j <= number - i; ++j) {  
                System.out.print(" ");  
            }  
            for (int k = 1; k <= i; ++k) {  
                System.out.print("*");  
            }  
        }  
    }  
}
```

```

        System.out.println();
    }
}

```

```
*****
```

```
****
```

```
***
```

```
**
```

```
*
```

9. Pattern program

```

public class Main {
    public static void main(String[] args) {
        int number=5;
        for(int i=1;i<=number;++i){
            for(int j=1;j<=i;++j){
                System.out.print("*");
            }
            System.out.println();
        }
        for(int i=number-1;i>=0;--i){
            for(int j=1;j<=i;++j){
                System.out.print("*");
            }
            System.out.println();
        }
    }
}

```

```
*
```

```
**
```

```
***
```

```
****
```

```
*****
```

```
****
```

**
*

10. Pattern program 10

```
public class Main {  
    public static void main(String[] args) {  
        int number=5;  
        for(int i=1;i<=number;++i){  
            for(int j=1;j<=number-i;++j){  
                System.out.print(" ");  
            }  
            for(int k=1;k<=i;++k){  
                System.out.print("*");  
            }  
            System.out.println();  
        }  
        for(int i=number;i>=0;--i){  
            for(int j=1;j<=number-i;++j){  
                System.out.print(" ");  
            }  
            for(int k=1;k<=i;++k){  
                System.out.print("*");  
            }  
            System.out.println();  
        }  
    }  
}
```

*

**

**

*

11. Pattern program 11

```
public class Main {  
    public static void main(String[] args) {  
        int number = 5;  
  
        for (int i = number; i >= 1; --i) {  
            for (int j = 1; j <= number - i; ++j) {  
                System.out.print(" ");  
            }  
            for (int k = 1; k <= i; ++k) {  
                System.out.print("* ");  
            }  
            System.out.println();  
        }  
  
        for (int i = 1; i <= number; ++i) {  
            for (int j = 1; j <= number - i; ++j) {  
                System.out.print(" ");  
            }  
            for (int k = 1; k <= i; ++k) {  
                System.out.print("* ");  
            }  
            System.out.println();  
        }  
    }  
}
```

* * * * *

* * * *

* * *

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* * * * *