

Patterns

program 1

```
package demo;

public class StarDemo {

    public static void main(String[] args)

    {

        for(int i=1;i<=4;i++)

        {

            for(int j=1;j<=i;j++)

            {

                System.out.print("*");

            }

            System.out.println();

        }

    }

}
```

output

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

program 2

```
package demo;

public class Stars {

    public static void main(String[] args)

    {

        int x=1;

        for(int i=1;i<=4;i++)
```

```

        {

            for(int j=1;j<=i;j++)

            {

                System.out.print(x);

                x++;

                if(j!=i)

                {

                    System.out.print("*");

                }

            }

            System.out.println();

        }

    }

}

```

output

```

1
2*3
4*5*6
7*8*9*10

```

program 3

```

package demo;

public class Stars1 {

    public static void main(String[] args)

    {

        for(int i=1;i<=5;i++)

        {

            for(int j=1;j<=i;j++)

            {

```

```

        System.out.print(j);

    }

    System.out.println();

}

}

```

output

```

1
12
123
1234
12345

```

program 4

```

package demo;

public class pattern3 {

    public static void main(String[] args)

    {

        for(int i=3;i>=1;i--)

        {

            for(int j=1;j<=4;j++)

            {

                System.out.print(i);

            }

            System.out.println();

        }

    }

}

```

output

```

3333
2222
1111

```

program 5

```
package demo;

public class pattern4 {

    public static void main(String[] args)
    {

        for(int i=1;i<=6;i++)
        {

            for(char j='a';j<='e';j++)
            {

                System.out.print(j);

            }

            System.out.println();

        }

    }

}
```

output

```
abcde
abcde
abcde
abcde
abcde
abcde
```

program 6

```
package demo;

public class pattern5 {

    public static void main(String[] args)
    {

        for(int i=1;i<=4;i++)
        {

            for(int j=1;j<=5;j++)
            {

                if(i==1||i==4||j==1||j==5)
```

```

        {
            System.out.print(i);
        }
        else
        {
            System.out.print(" ");
        }
    }
    System.out.println();
}
}
}

```

output

```

11111
2  2
3  3
44444

```

program 7

```

package demo;

public class pattern6 {

    public static void main(String[] args)
    {

        for(int i=1;i<=4;i++)
        {

            for(int j=4;j>=i;j--)
            {

                System.out.print("*");
            }

            System.out.println();
        }
    }
}

```

```
    }  
}
```

output

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

program 8

```
package demo;  
  
public class pattern7 {  
    public static void main(String[] args)  
    {  
        for(int i=1;i<=6;i++)  
        {  
            for(int j=1;j<=i;j++)  
            {  
                System.out.print(j*10+" ");  
            }  
            System.out.println();  
        }  
    }  
}
```

output

```
10  
10 20  
10 20 30  
10 20 30 40  
10 20 30 40 50  
10 20 30 40 50 60
```

program 9

```
package demo;
```

```

public class pattern8 {

    public static void main(String[] args)
    {

        for(int i=1;i<=6;i++)
        {

            for(int j=1;j<=i;j++)
            {

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

            }

            System.out.println();

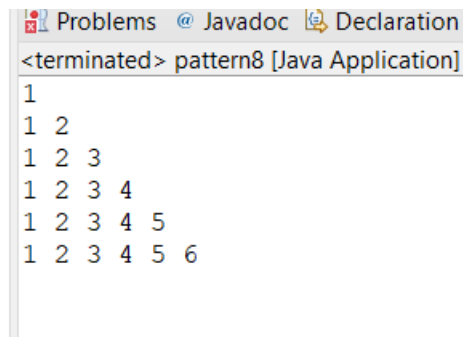
        }

    }

}

```

output



```

Problems @ Javadoc Declaration
<terminated> pattern8 [Java Application]
1
1 2
1 2 3
1 2 3 4
1 2 3 4 5
1 2 3 4 5 6

```

program 10

```

package demo;

public class Patterns2 {

    public static void main(String[] args)
    {

        for(int i=1;i<=6;i++)
        {

            for(int j=1;j<=4;j++)
            {

                System.out.print(j);

            }

        }

    }

}

```

```

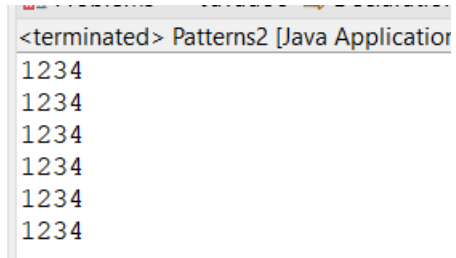
        }

        System.out.println();
    }

}

```

output



```

<terminated> Patterns2 [Java Application]
1234
1234
1234
1234
1234
1234

```

program 11

```

package demo;

public class PatternsDemo {

    public static void main(String[] args)
    {

        int x=1;

        for(int i=1;i<=4;i++)
        {

            for(int j=1;j<=i;j++)
            {

                System.out.print(x);

                x++;

            }

            System.out.println();

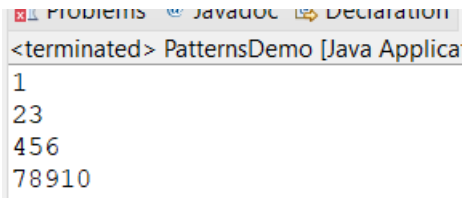
        }

    }

}

```

output



```
<terminated> PatternsDemo [Java Applica
1
23
456
78910
```

program 12

```
package demo;

public class Pattern1 {

    public static void main(String[] args)
    {

        for(int i=1;i<=4;i++)
        {

            for(int j=1;j<=5;j++)
            {

                if(i==1||i==4||j==1)
                {

                    System.out.print("*"+" ");

                }

                else
                {

                    System.out.print("  ");

                }

            }

            System.out.println();

        }

    }

}
```

output

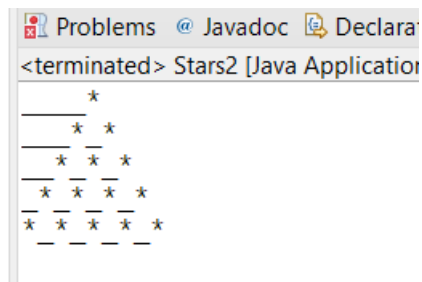
```
<terminated> Pattern1 [Java Application] (
```

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

program 13

```
package demo;  
  
public class Stars2 {  
    public static void main(String[] args)  
    {  
        for(int i=1;i<=5;i++)  
        {  
            for(int sp=1;sp<=(5-i);sp++)  
            {  
                System.out.print("_");  
            }  
            for(int j=1;j<=i;j++)  
            {  
                System.out.print("*");  
                if (j<i)  
                {  
                    System.out.print("_");  
                }  
            }  
            System.out.println();  
        }  
    }  
}
```

output



program 14

```
package demo;

public class Stars3 {

    public static void main(String[] args)

    {

        for(int i=1;i<=5;i++)

        {

            for(int sp=1;sp<=(5-i);sp++)

            {

                System.out.print("_");

            }

            for(int j=1;j<=i;j++)

            {

                System.out.print("*");

                if (j<i)

                {

                    System.out.print("_");

                }

            }

            System.out.println();

        }

        for(int i=1;i<=4;i++)

        {

            for(int sp=1;sp<=i;sp++)
```

```

        {
            System.out.print("_");
        }

        for(int j=1;j<=(5-i);j++)
        {
            System.out.print("*");

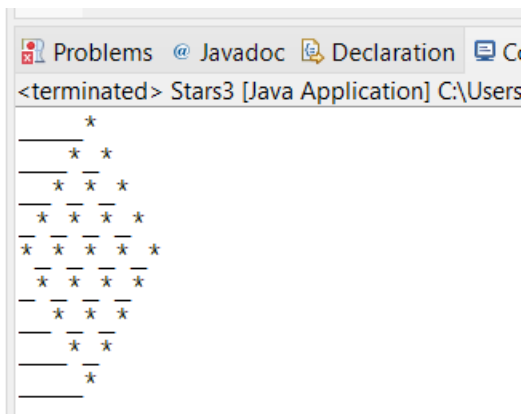
            if (j<(5-i))
            {
                System.out.print("_");
            }
        }

        System.out.println();
    }

}

```

output



program 15

```

package demo;

public class Patterns9 {

    public static void main(String[] args)

    {

```

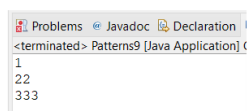
```

        for(int i=1;i<=3;i++)
        {
            for(int j=1;j<=i;j++)
            {
                System.out.print(i);
            }
            System.out.println();
        }
    }
}

```

output

.



```

1
22
333

```

program 16

```

package demo;

public class Pattern10 {

    public static void main(String[] args)
    {
        for(int j=1;j<=4;j++)
        {

```

```

        for(int i=1;i<=5;i++)
        {
            System.out.print(" "+j);

        }


        System.out.println();

    }

}

```

output


 Problems @ Javadoc Declaration
 <terminated> Pattern10 [Java Application]
 1 1 1 1 1
 2 2 2 2 2
 3 3 3 3 3
 4 4 4 4 4

program 17

```

package demo;

public class Pattern11 {

    public static void main(String[] args)

    {

        for(int j=1;j<=3;j++)

        {

            for(int i=1;i<=4;i++)

            {

                System.out.print('*');

            }

            System.out.println();

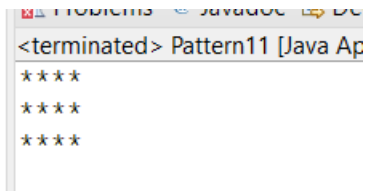
        }

    }

}

```

output



```
<terminated> Pattern11 [Java App]
****
****
****
```

program 18

```
package demo;

public class Pattern12 {

    public static void main(String[] args) {

        for(int i=1;i<=4;i++)

        {

            for(int j=1;j<=i;j++)

            {

                System.out.print(j);

                if(j<i)

                {

                    System.out.print("*");

                }

            }

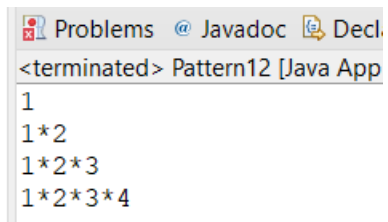
            System.out.println();

        }

    }

}
```

output



```
<terminated> Pattern12 [Java App]
1
1*2
1*2*3
1*2*3*4
```

program 19

```
package demo;

public class Pattern13 {
```

```

    public static void main(String[] args) {

        int k=1;

        for(int i=1;i<=4;i++)

        {

            for(int sp=1;sp<=5-i;sp++)

            {

                System.out.print(" ");

            }

            for(int j=1;j<=i;j++)

            {

                System.out.print(k++ + "");

            }

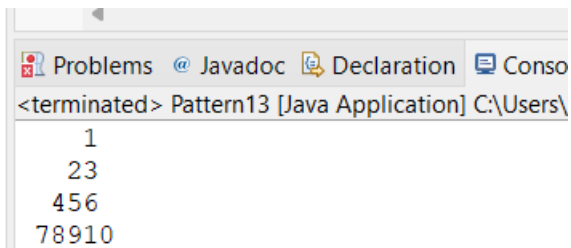
            System.out.println();

        }

    }
}

```

output



```

<terminated> Pattern13 [Java Application] C:\Users\
1
23
456
78910

```

Program 20

```

package demo;

public class Patterns14 {

    public static void main(String[] args) {

        int x=1;

        for(int i=1;i<=4;i++)

        {

            for(int j=1;j<=i;j++)

```



```

        {
            if(j>i)
            {
                System.out.print(x++ +" ");
            }

            else {

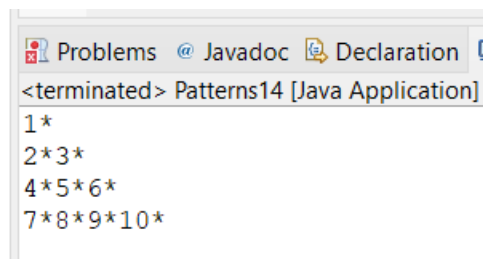
                System.out.print(x++ +"*");
            }

        }

        System.out.println();
    }
}

```

output



```

<terminated> Patterns14 [Java Application]
1*
2*3*
4*5*6*
7*8*9*10*

```

program 21

```

package demo;

public class Patterns15 {

    public static void main(String[] args) {

        int k=1;

        for(int i=1;i<=4;i++)

        {

            for(int j=4;j>=i;j--)

            {

                System.out.print(" "+ k++);

            }

        }

    }

}

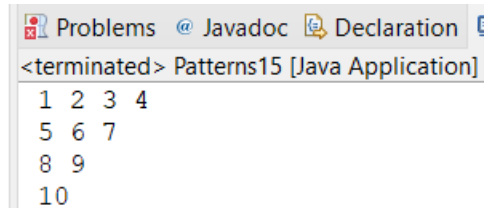
```

```

        System.out.println( );
    }
}
}

```

output



```

1 2 3 4
5 6 7
8 9
10

```

programs 22

```

package demo;

public class Patterns16 {

    public static void main(String[] args) {

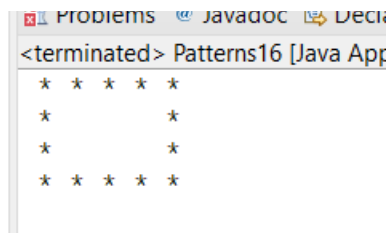
        for(int i=1;i<=4;i++)
        {
            for(int j=1;j<=5;j++)
            {
                if(i==1||i==4||j==1||j==5 )
                {
                    System.out.print(" *");
                }

                else
                {
                    System.out.print("  ");
                }
            }

            System.out.println();
        }
    }
}

```

output



```
<terminated> Patterns16 [Java App
* * * * *
*       *
*       *
*       *
* * * * *
```

program 23

```
package demo;

public class Patterns17 {

    public static void main(String[] args) {

        for(int i=1;i<=4;i++)

        {

            for(int j=4;j>=1;j--)

            {

                System.out.print(j);

            }

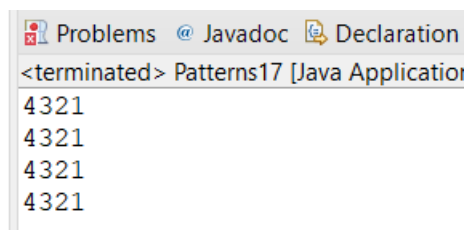
            System.out.println();

        }

    }

}
```

output



```
Problems @ Javadoc Declaration
<terminated> Patterns17 [Java Application]
4321
4321
4321
4321
```

