

Q. Write java program on below loop patterns?

1)

D D D D

C C C C

B B B B

A A A A

sol:

```
public class Test{
    public static void main(String[] args) {
        for(int i=0;i<4;i++) {
            for(int j=0;j<4;j++) {
                System.out.print((char)(68-i)+" ");
            }
            System.out.println();
        }
    }
}
```

2)

* * * *

* *

* *

* * * *

sol:

```
class Test
{
    public static void main(String[] ar)
    {
        for(int i=1;i<=4;i++)
        {
            for(int j=1;j<=4;j++)
            {
                //System.out.print("*");
                if((i==j) || (i==2 && j==3) || (i==3 && j==2)) //&& (i==3 && j==2) || (i==3 || j==3))
                {
                    System.out.print(" ");
                }
                else
                {
                    System.out.print("*");
                }
            }
            System.out.println();
            System.out.println();
        }
    }
}
```

}

3)

```

*   _   _   _
_   *   _   _
_   _   *   _
_   _   _   *

```

sol:

— — — —

```
class Test
{
public static void main(String[] ar)
{
for(int i=1;i<=4;i++)
{
for (int j=1;j<=4;j++)
{
if(i==j)
{
System.out.print("*");
}
else
{
System.out.print("-");
}
}
}
}
}
```

4)

*	-	-	-	*
-	*	-	*	-
-	-	*	-	-
-	*	-	*	-
*	-	-	-	*

sol:

— — — —

```
class Test
{
public static void main(String [] ar)
{
for(int i=1;i<=5;i++)
{
for(int j=1;j<=5;j++)
{
```

```

if(i==j || (i==1 && j==5) || (i==2 && j==4) || (j==2 && i==4) || (j==1 && i==5))
{
System.out.print("*");

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

```

```

System.out.println();
}
}
}

```

```

5)
1 1 1
1 0 1
1 1 1

```

```

sol:
----
public class Test{
    public static void main(String [] args) {
        for(int i=1;i<=3;i++) {
            for(int j=1;j<=3;j++) {
                if(i==2&&j==2) {
                    System.out.print(0+" ");
                }
                else {
                    System.out.print(1+" ");
                }
            }
            System.out.println();
        }
    }
}

```

```

6)
1
2 2
3 3 3
4 4 4 4

```

```

sol:
----

```

```

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

```

```

7)
4 4 4 4
3 3 3
2 2
1

```

sol:

```

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

```

```

8)
*
* *
* * *
* * * *
* * *
* *
*

```

sol:

```

public class Test{
    public static void main(String[] args) {
        for(int i=0;i<4;i++) {
            for(int j=0;j<=i;j++) {
                System.out.print("*" + " ");
            }
            System.out.println();
        }
    }
}

```

```

    }
    for(int i=0;i<3;i++) {
        for(int j=0;j<3-i;j++) {
            System.out.print("*"+" ");
        }
        System.out.println();
    }
}

```

9)
1
2 3
4 5 6
7 8 9 0

sol:

```

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

```

10)
1
1 2
1 2 3
1 2 3 4

sol:

```

public class Test{
    public static void main(String args[]) {
        for(int i=1;i<5;i++) {
            for(int j=1;j<6-i;j++) {
                System.out.print(" ");
            }
        }
    }
}

```

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

```
}
```

```
}
```

```
}
```