Q Program of patterns.

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```

```java
import java.util.*;

class loop_demo1

{

 public static void main (String args[])

{

    int i,j;

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

  {

    for (j=0;j<4;j++)

{

System.out.print(" * ");

}

System.out.println();

}

}

}
```
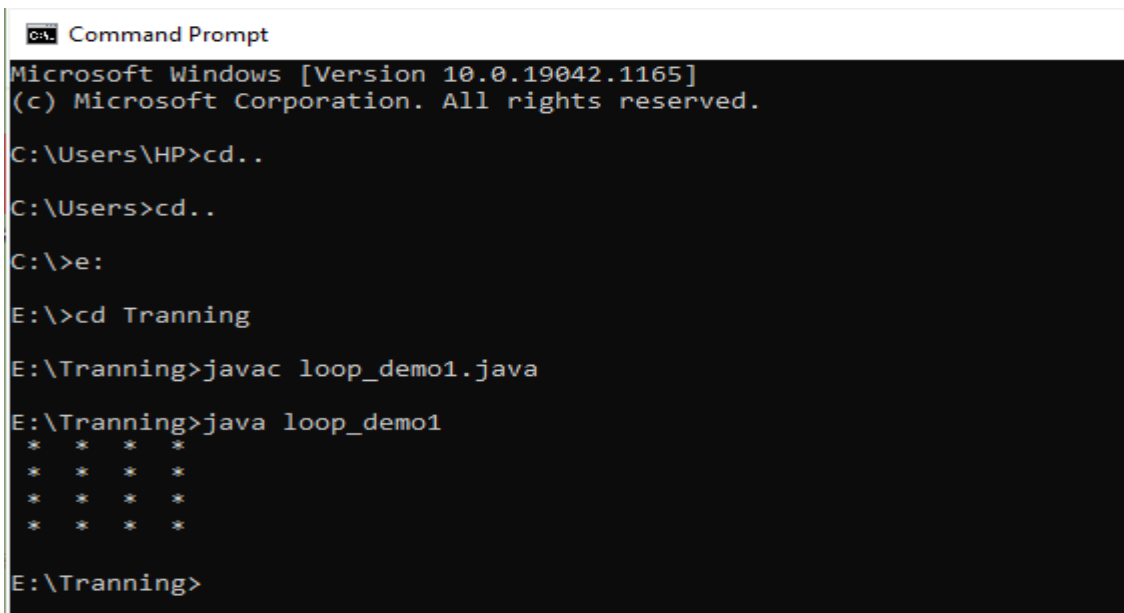
```
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```

```java
import java.util.*;

class loop_demo4
{
    public static void main (String args[])
    {
        int i,j;
        for (i=1;i<=6;i++)
        {
            for (j=1;j<i;j++)
            {
                System.out.print(" * ");
            }
            System.out.println();
        }}}
```

```
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    *
```

```java
import java.util.*;
class loop_demo7
{
    public static void main (String args[])
    {
        int i,j,k;
        for (i=1;i<=5;i++)
        {
        for (j=1;j<i;j++)
{
System.out.print(" ");
}
for(k=i;k<=5;k++)
{
System.out.print("*");
}
System.out.println(" ");
}
}
}
```

```
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C:\Users\HP>cd..

C:\Users>cd..

C:\>e:

E:\>cd Tranning

E:\Tranning>javac  loop_demo7.java

E:\Tranning>java  loop_demo7
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E:\Tranning>
```

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

import java.util.*;

class loop_demo3

{

    public static void main (String args[])

{

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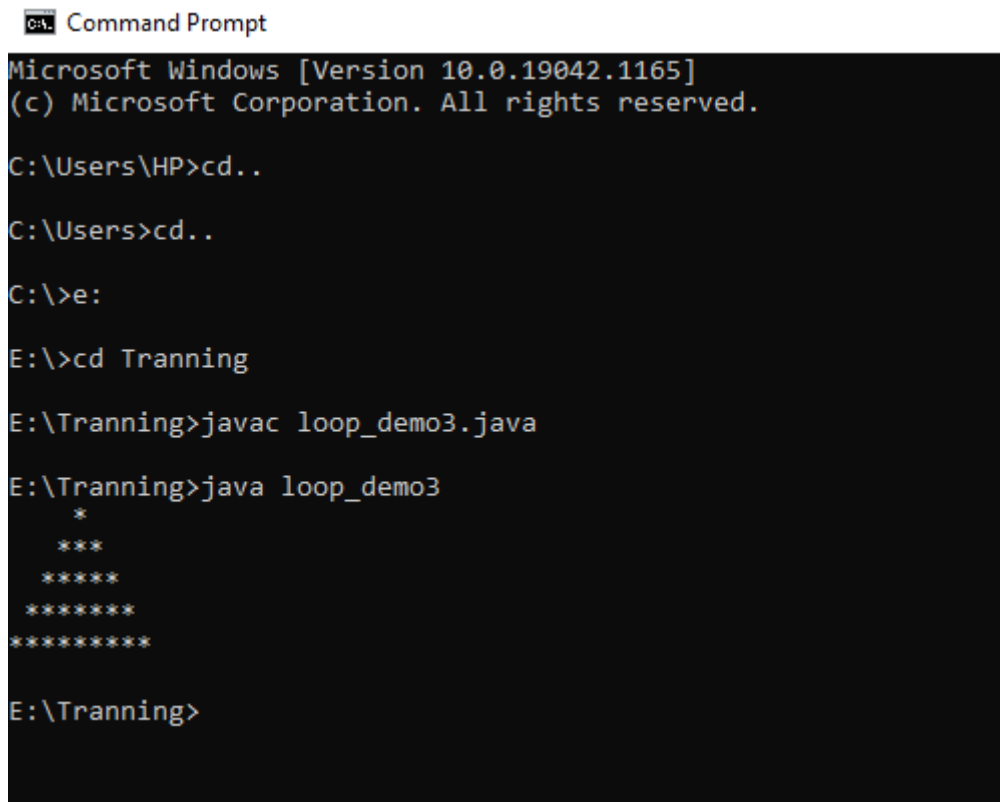
    for (i=1;i<=5;i++)

  {

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

{

```java
  System.out.print(" ");

}

for(j=1;j<=i*2-1;j++)

{

System.out.print("*");

}

System.out.println();

}

}

}
```

1

1 0

1 0 1

1 0 1 0

1 0 1 0 1

```java
import java.util.*;
class loop_demo9
{
    public static void main (String args[])
{
     int i ,j;
    for (i=1;i<=5;i++)
  {
    for (j=1;j<=i;j++)
{
if(j%2==0)
{
  System.out.print("0");
}
else
{
System.out.print("1");
}
}
System.out.println(" ");
}
}
```

}

1

0 1

1 0 1

0 1 0 1

1 0 1 0 1

import java.util.*;

class loop_demo

{

   public static void main (String args[])

{

    int i ,j;

   for (i=0;i<=4;i++)

  {

```java
    for (j=0;j<=i;j++)

{

if((i+j)%2==0)

{

  System.out.print("1");

}

else

{

System.out.print("0");

}

}

System.out.println(" ");

}

}

}
```



```
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C:\Users\HP>cd..

C:\Users>cd..

C:\>e:

E:\>cd Tranning

E:\Tranning>javac loop_demo.java

E:\Tranning>java loop_demo
1
01
101
0101
10101

E:\Tranning>
```

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

```java
import java.util.*;
class loop_demo8
{
    public static void main (String args[])
{
    int i ,j,k;
    for (i=5;i>=1;i--)
  {
    for (j=5;j>i;j--)
{
 System.out.print(" ");
}
for(j=1;j<=i*2-1;j++)
{
System.out.print("*");
}
System.out.println();
}
}
}
```

```
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C:\Users\HP>cd..

C:\Users>cd..

C:\>e:

E:\>cd Tranning

E:\Tranning>javac loop_demo8.java

E:\Tranning>java loop_demo8
*********
 *******
  *****
   ***
    *

E:\Tranning>
```