Logic Building Session
Day 3: May 2021

Kiran Waghmare

File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?

May21 LB Notes.txt | whileLoop1.java | star1.java | new 1

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Who can see what you share here? Recording On

```
1  class star1
2  {
3  public static void main(String args[])
4  {
5
6       for(int i=1;i<=3;i++)//Row
7       {
8            for(int j=1;j<=3;j++)//Column
9            {
10
11
12
13
14
15
16       }***
17
18 }
19 }
20
21
22 //3X3
23 //Row
24 //Col
```

Command Prompt

```
C:\Test>java star1
***
***
***

C:\Test>
```

ava source file

INS

File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?

May21 LB Notes.txt | whileLoop1.java | star1.java | new 1

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Who can see what you share here? Recording On

```java
class star1
{
public static void main(String args[])
{

    for(int i=1;i<=4;i++)//Row
    {
        for(int j=1;j<=i;j++)//Column
        {

            System.out.print("*");

        }

        System.out.println();
    }

}
}


//3X3
//Row: i : 3
//Column: j : 3
```

i j
1 1,2,3
2 1,2
3 1

ava source file | length : 265 lines : 24 | Ln : 20 Col : 1 Pos : 226 | Windows (CR LF) | UTF-8 | INS

File Edit Search View Encoding Language Setting

Mute Start

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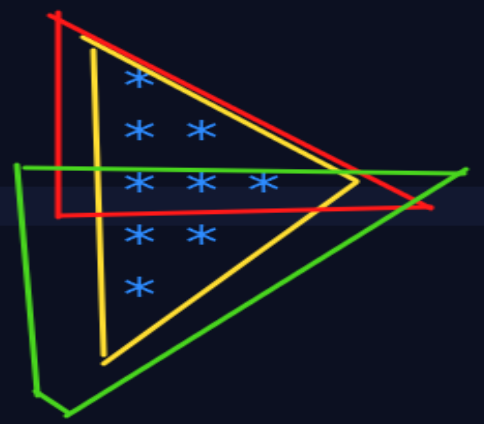
Who can see what you share here? Recording On

May21 LB Notes.txt | whileLoop1.java | star2.java | new 1

```java
class star2
{
public static void main(String args[])
{

    for(int i=1;i<=3;i++)//Row
    {
        for(int j=3;j>=i;j--)//Column
        {

            System.out.print("*");

        }

        System.out.println();
    }

}
}


//3X3
//Row: i : 3
//Column: j : 3
```

i j
1 1,2,3
2 1,2
3 1



ava source file | length : 265 lines : 24 | Ln : 23 Col : 13 Pos : 249 | Windows (CR LF) | UTF-8 | INS

File Edit Search View Encoding Language Settings Tools Macro Run

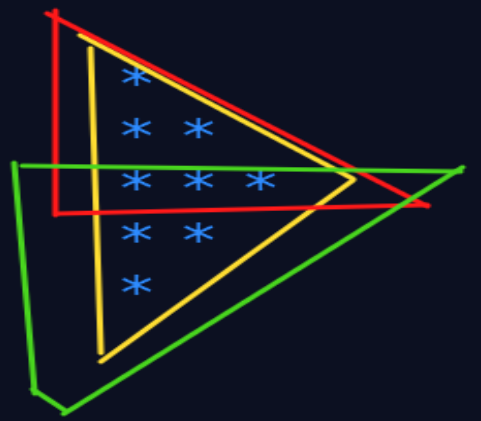
Mouse Select Text Draw Stamp Spotlight Eraser Format Undo

Who can see what you share here? Recording On

May21 LB Notes.txt | whileLoop1.java | star3.java | new 1

```
1  class star2
2  {
3  public static void main(String args[])
4  {
5
6       for(int i=1;i<7;i++)//Row
7       {
8            for(int j=1;j<=i;j++)//Column
9            {
10
11                System.out.print("*");
12
13           }
14
15           System.out.println();
16      }
17      for(int i=1;i<=7;i++)//Row
18      {
19           for(int j=7;j>=i;j--)//Column
20           {
21
22                System.out.print("*");
23
24           }
25
26           System.out.println();
27      }
28
29 }
30 }
```

i j
1 1,2,3
2 1,2
3 1



ava source file | length : 418 lines : 35 | Ln : 15 Col : 34 Pos : 210 | Windows (CR LF) | UTF-8 | INS

C:\Test>

Mouse Select Text Draw Stamp Spotlight Eraser Format Undo
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File Edit Search View Encoding Language Settings Tools Macro Run

May21 LB Notes.txt | whileLoop1.java | star3.java | new 1

```
1  class star2
2  {
3  public static void main(String args[])
4  {
5
6       for(int i=1;i<7;i++)//Row
7       {
8            for(int j=1;j<=i;j++)//Column
9            {
10
11                System.out.print("*");
12
13           }
14
15           System.out.println();
16      }
17      for(int i=1;i<=7;i++)//Row
18      {
19           for(int j=7;j>=i;j--)//Column
20           {
21
22                System.out.print("*");
23
24           }
25
26           System.out.println();
27      }
28
29 }
30 }
```

ava source file | length : 418 lines : 35 | Ln : 15 Col : 34 Pos : 210 | Windows (CR LF) | UTF-8 | INS

```
C:\Test>
```

Mouse Select Text Draw Stamp Spotlight Eraser Format Undo
Who can see what you share here? Recording On

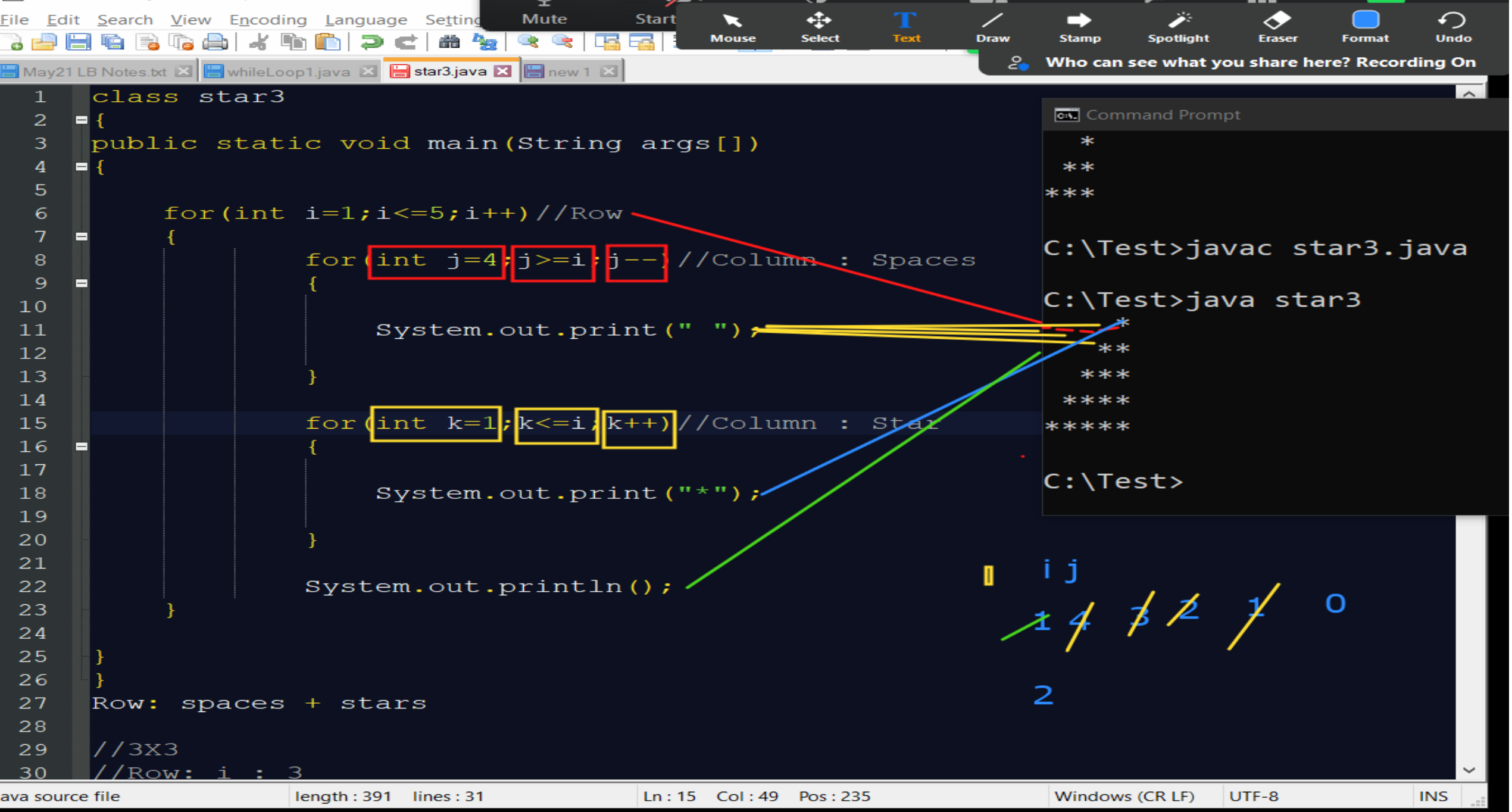
File Edit Search View Encoding Language Settings Tools Macro Run

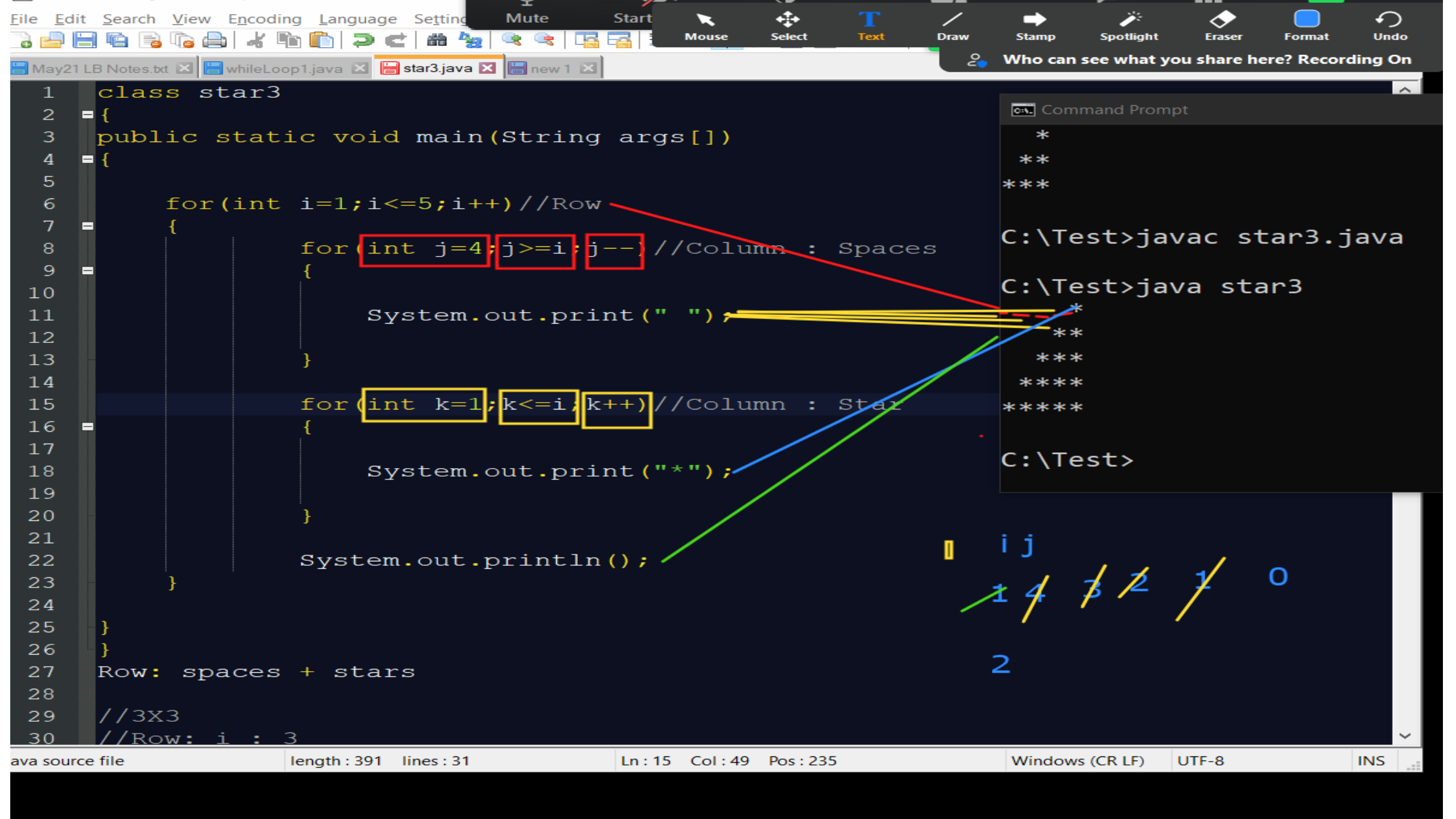
May21 LB Notes.txt | whileLoop1.java | star3.java | new 1

```
1  class star2
2  {
3  public static void main(String args[])
4  {
5
6      for(int i=1;i<7;i++)//Row
7      {
8              for(int j=1;j<=i;j++)//Column
9              {
10
11                 System.out.print("*");
12
13             }
14
15             System.out.println();
16     }
17     for(int i=1;i<=7;i++)//Row
18     {
19             for(int j=7;j>=i;j--)//Column
20             {
21
22                 System.out.print("*");
23
24             }
25
26             System.out.println();
27     }
28
29 }
30 }
```

ava source file | length : 418 lines : 35 | Ln : 15 Col : 34 Pos : 210 | Windows (CR LF) | UTF-8 | INS

C:\Test>


File Edit Search View Encoding Language Setting
Mute
Start
Mouse
Select
Text
Draw
Stamp
Spotlight
Eraser
Format
Undo
Who can see what you share here? Recording On
May21 LB Notes.txt
whileLoop1.java
star3.java
new 1
class star3
{
public static void main(String args[])
{
for(int i=1;i<=5;i++)//Row
{
for(int j=4;j>=i;j--)//Column : Spaces
{
System.out.print(" ");
}
for(int k=1;k<=i;k++)//Column : Star
{
System.out.print("*");
}
System.out.println();
}
}
}
Row: spaces + stars
//3X3
//Row: i : 3
Command Prompt
*
**
***
C:\Test>javac star3.java
C:\Test>java star3
*
**
***
****
*****
C:\Test>
i j
1 4 3 2 1 0
2
ava source file
length : 391 lines : 31
Ln : 15 Col : 49 Pos : 235
Windows (CR LF)
UTF-8
INS


File Edit Search View Encoding Language Setting
Mute
Start
Mouse
Select
Text
Draw
Stamp
Spotlight
Eraser
Format
Undo
Who can see what you share here? Recording On
May21 LB Notes.txt
whileLoop1.java
star3.java
new 1
class star3
{
public static void main(String args[])
{
for(int i=1;i<=5;i++)//Row
{
for(int j=4;j>=i;j--)//Column : Spaces
{
System.out.print(" ");
}
for(int k=1;k<=i;k++)//Column : Star
{
System.out.print("*");
}
System.out.println();
}
}
}
Row: spaces + stars
//3X3
//Row: i : 3
Command Prompt
*
**
***
C:\Test>javac star3.java
C:\Test>java star3
*
**
***
****
*****
C:\Test>
i j
1 4 3 2 1 0
2
ava source file
length : 391 lines : 31
Ln : 15 Col : 49 Pos : 235
Windows (CR LF)
UTF-8
INS

Mute Start
Mouse Select Text Draw Stamp Spotlight Eraser Format Undo
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File Edit Search View Encoding Language Setting

May21 LB Notes.txt | whileLoop1.java | star4.java | new 1

```java
class star3
{
public static void main(String args[])
{

    for(int i=1;i<=5;i++)//Row
    {
            for(int j=4;j>=i;j--)//Column : Spaces
            {

                System.out.print(" ");

            }

            for(int k=1;k<=i;k++)//Column : Star
            {

                System.out.print("*");

            }

            System.out.println();
    }

}
}
Row: spaces + stars

//3X3
//Row: i : 3
```

ava source file | length : 391 lines : 31 | Ln : 22 Col : 34 Pos : 318 | Windows (CR LF) | UTF-8 | INS

File Edit Search View Encoding Language Settings Tools Macro Run

Mouse Select Text Draw Stamp Spotlight Eraser Format Undo

Who can see what you share here? Recording On

May21 LB Notes.txt | whileLoop1.java | star4.java | new 1

```java
class star4
{
public static void main(String args[])
{

    for(int i=1;i<=3;i++)//Row
    {
        for(int j=1;j<=i;j++)//Column : Spaces
        {

            System.out.print(" ");

        }

        for(int k=3;k>=i;k--)//Column : Star
        {

            System.out.print("*");

        }

        System.out.println();
    }

}
}
```

ava source file | length : 332 lines : 27 | Ln : 9 Col : 14 Pos : 143 | Windows (CR LF) | UTF-8 | INS

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May21 LB Notes.txt | whileLoop1.java | star6.java | new 1

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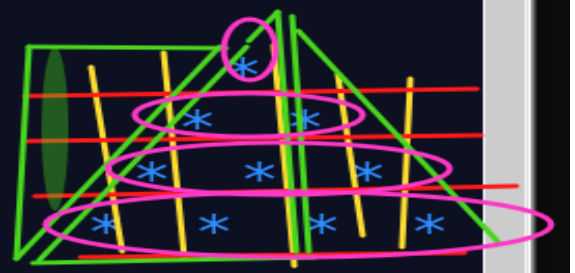
```java
class star6

{
public static void main(String args[])
{
    for(int i=1;i<=3;i++)//Row
    {
        for(int j=2;j>=i;j--)//Column : Spaces
        {

            System.out.print(" ");

        }

        for(int k=1;k<=i;k++)//Column : Star
        {

            System.out.print("*");

        }

        System.out.println();
    }
    for(int i=1;i<=3;i++)//Row
    {
        for(int j=0;j<i-1;j++)//Column : Spaces
        {

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



ava source file | length : 593 lines : 45 | Ln : 2 Col : 1 Pos : 14 | Windows (CR LF) | UTF-8 | INS

File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?

May21 LB Notes.txt | whileLoop1.java | star7.java | new 1

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Who can see what you share here? Recording On

```
1  class star7
2
3  {
4  public static void main(String args[])
5  {
6
7
8  }
9  }
10
11
12
```

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

ava source file | length : 81 lines : 12 | Ln : 12 Col : 6 Pos : 82 | Windows (CR LF) | UTF-8 | INS

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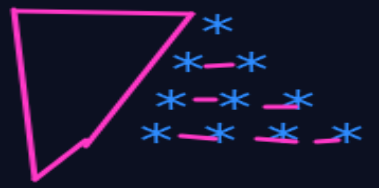
File Edit Search View Encoding Language Setting

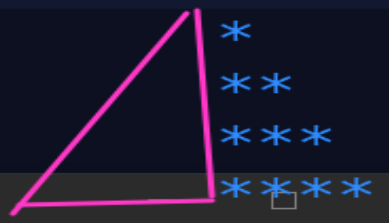
May21 LB Notes.txt | whileLoop1.java | star7.java | new 1

```java
class star7

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

}
}
```





Command Prompt

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

C:\Test>javac star7.java

C:\Test>java star7
    *
   * *
  * * *
 * * * *

C:\Test>
```

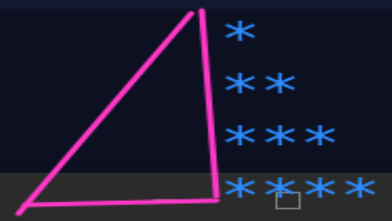
ava source file

INS

```java
class star7

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

}
}
```



```
Command Prompt
   **
  ***
 ****

C:\Test>javac star7.java

C:\Test>java star7
     *
    * *
   * * *
  * * * *

C:\Test>
```

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File Edit Search View Encoding Language Setting

May21 LB Notes.txt | whileLoop1.java | star8.java | new 1

```
1  class star8
2
3  {
4  public static void main(String args[])
5  {
6       for(int i=1;i<=4;i++)
7       {
8            for(int j=4;j>=1;j--)
9            {
10                if(j>i)
11                     System.out.print(" ");
12                else
13                     System.out.print(" *");
14           }
15           System.out.println();
16      }
17
18 }
19 }
20
21
22
```

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

ava source file | length : 249 lines : 22 | Ln : 21 Col : 1 Pos : 243 | Windows (CR LF) | UTF-8 | INS

File Edit Search View Encoding Language Setting

Mute Start Video Security Participants Chat Polls New Share Pa

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May21 LB Notes.txt | whileLoop1.java | star8.java | new 1

Mouse Select Text Draw Stamp Spotlight Eraser Format Undo Redo

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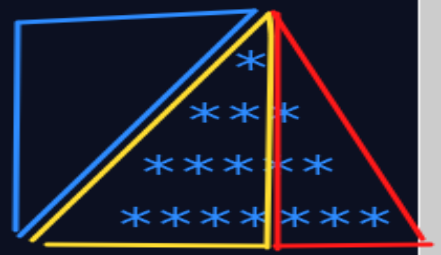
```
1  class star8
2
3  {
4  public static void main(String args[])
5  {
6      for(int i=1;i<=4;i++)
7      {
8          for(int j=4;j>=1;j--)
9          {
10             if(j>i)
11                 System.out.print(" ");
12             else
13                 System.out.print(" *");
14         }
15         System.out.println();
16     }
17
18 }
19 }
20
21
22
```



ava source file | length : 249 lines : 22 | Ln : 14 Col : 10 Pos : 201 | Windows (CR LF) | UTF-8 | INS

```
class star8

{
public static void main(String args[])
{
     for(int i=1;i<=4;i++)//Row
     {
          for(int j=4;j>=i;j--)//Space
          {
               System.out.print(" ");
          }

          for(int k=1;k<=i;k++)//Yellow
          {
               System.out.print("*");
          }

          for(int l=1;l<=i;l++ )//Red tr
          {
               System.out.print("*");
          }

          System.out.println();
     }

}
}
```

```
Command Prompt
    ***
   *****
  *******

C:\Test>javac star8.java

C:\Test>java star8
    **
   *****
  *******
 *********

C:\Test>
```

ava source file | length : 381 | lines : 30 | Ln : 18 | Col : 20 | Pos : 266 | Windows (CR LF) | UTF-8 | INS

Mute Start Video Security Participants Chat Polls New Share

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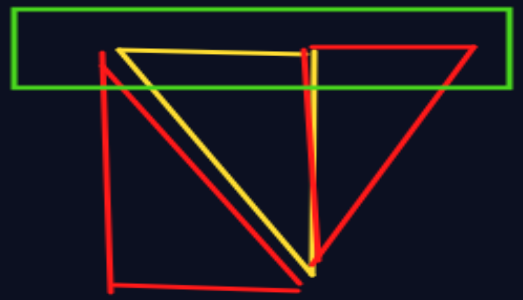
File Edit Search View Encoding Language Setting

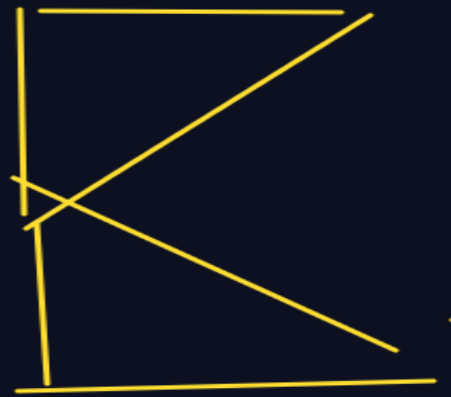
May21 LB Notes.txt | whileLoop1.java | star9.java | new 1

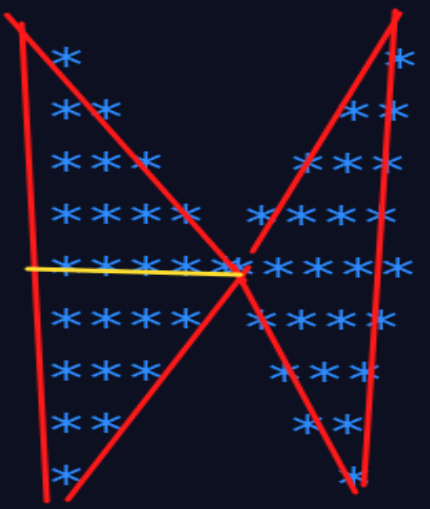
Mouse Select Text Draw Stamp Spotlight Eraser Format Undo Redo

Who can see what you share here? Recording On

```
1  Topic: Logic Building Session -
2  Date: Apr 29, 2021 08:57 AM India
3
4
```







Normal text file | length : 76 lines : 4 | Ln : 2 Col : 34 Pos : 73 | Windows (CR LF) | UTF-8 | INS

File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?

May21 LB Notes.txt | whileLoop1.java | star10.java | new 1

You are screen sharing

Mouse Select Text Draw Stamp Spotlight Eraser Format Undo Redo

Who can see what you share here? Recording On

```
1  class star10
2
3  {
4  public static void main(String args[])
5  {
6      for(int i=1;i<=5;i++)//Row
7      {
8          for(int j=1;j<=i;j++)//col
9          {
10             if(i%2==0)
11                 System.out.print("0");
12             else
13                 System.out.print("1");
14         }
15
16
17         System.out.println();
18     }
19
20 }
21 }
22
23
24
```

```
1
10
101
1010
10101
```

```
1
00
111
0000
11111
```

```
1
121
12321
1234321
123454321
```

ava source file | length : 273 lines : 24 | Ln : 22 Col : 1 Pos : 265 | Windows (CR LF) | UTF-8 | INS

File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?

May21 LB Notes.txt | whileLoop1.java | star11.java | new 1

You are screen sharing

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Who can see what you share here? Recording On

```java
class star11

{
public static void main(String args[])
{
    for(int i=1;i<=5;i++)//Row
    {
        for(int j=1;j<=i;j++)//col
        {
            if(i%2==0)
            System.out.print("0");
            else
            System.out.print("1");
        }


        System.out.println();
    }

}
}
```

```
A
AB
ABC
ABCD
ABCDE
ABCDEF
```

ascii

a-z, A-Z, 0-9,!@#$%^&

A=65

a=97

ava source file | length : 273 lines : 24 | Ln : 20 Col : 2 Pos : 260 | Windows (CR LF) | UTF-8 | INS