

Logic Building Session

Day 5: MAR 2023

Session 1

Kiran Waghmare



class Ternary1{

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Format

Undo

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Who can see what you share here? Recording On

```
public static void main(String args[])
```

```
{
```

```
    int n1,n2;
```

```
    n1=10,n2=20;
```

```
    int max=(n1>n2) ? n1 : n2;
```

```
}
```

```
}
```

class Ternary1{

public static void main(String args[])
{

int n1=100;

int n2=20;

int max=(n1>n2) ? n1 : n2;

System.out.println("Max = "+max);

int max=(n1>n2) ? n1+n2 : n2-n1;

}

}

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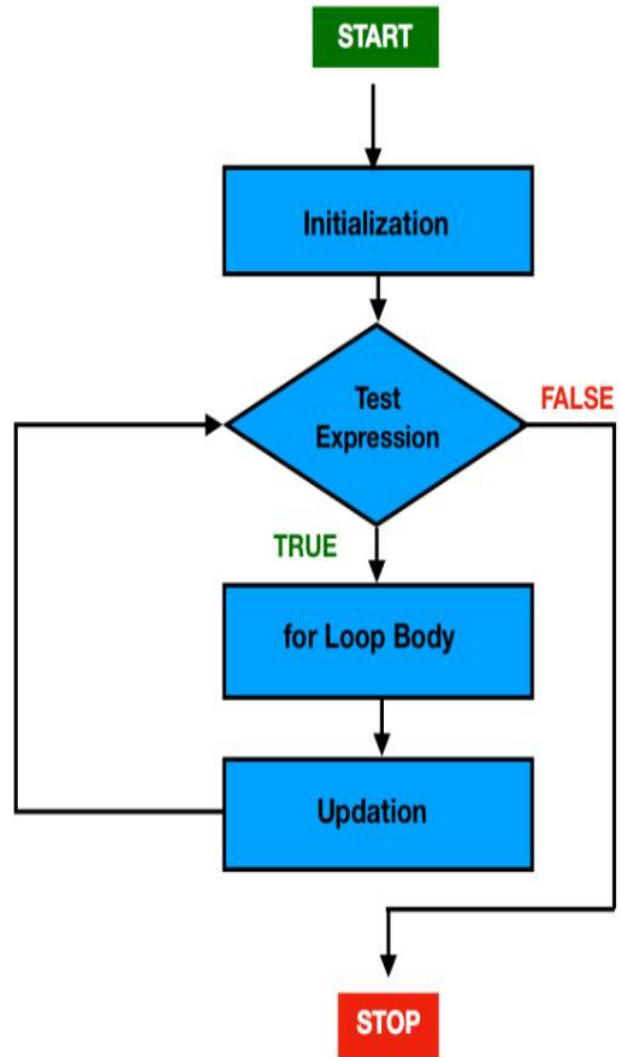
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Flowchart of for loop



class ForLoop4{

public static void main(String args[])

{

for(int ~~i=0~~^{3 4}; ~~i<5~~⁴; ~~i++~~⁴)

{

System.out.println(i);

}

}

}

i = 0 1 2 3 4 5

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D:\Test>java ForLoop4

0

1

2

3

4

D:\Test>

```
class ForLoop4{
```

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

```
for(int i=0;i<5;i++)
```

```
{
```

```
    System.out.println(i);
```

```
    if(i==3)
```

```
        ✓ break;
```

```
    System.out.println(i);
```

```
}
```

```
}
```

```
}
```

```
D:\Test>java ForLoop4
```

```
0
```

```
0
```

```
1
```

```
1
```

```
2
```

```
2
```

```
3
```

```
D:\Test>
```

```
class ForLoop5{
```

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

```
for(int i=0;i<5;i++)
```

```
{
```

```
    System.out.println(i);
```

```
    if(i==3)
```

```
        continue;
```

```
    System.out.println(i);
```

```
}
```

```
}
```

```
}
```



```
D:\Test>java ForLoop5
```

```
0
```

```
0
```

```
1
```

```
1
```

```
2
```

```
2
```

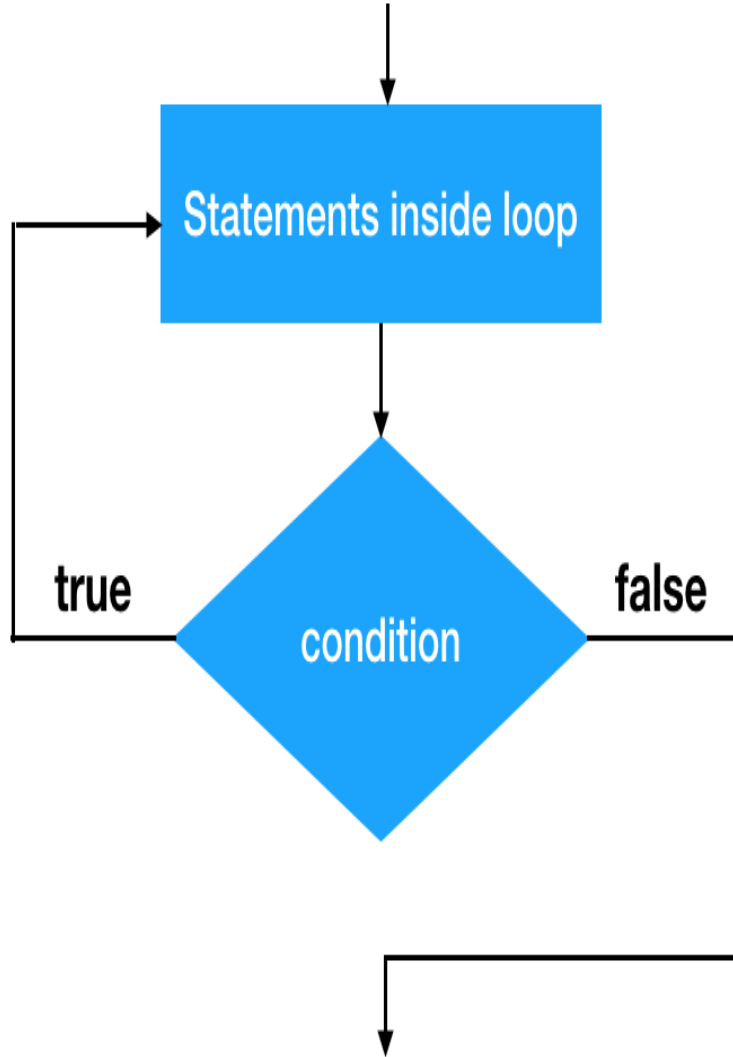
```
3
```

```
4
```

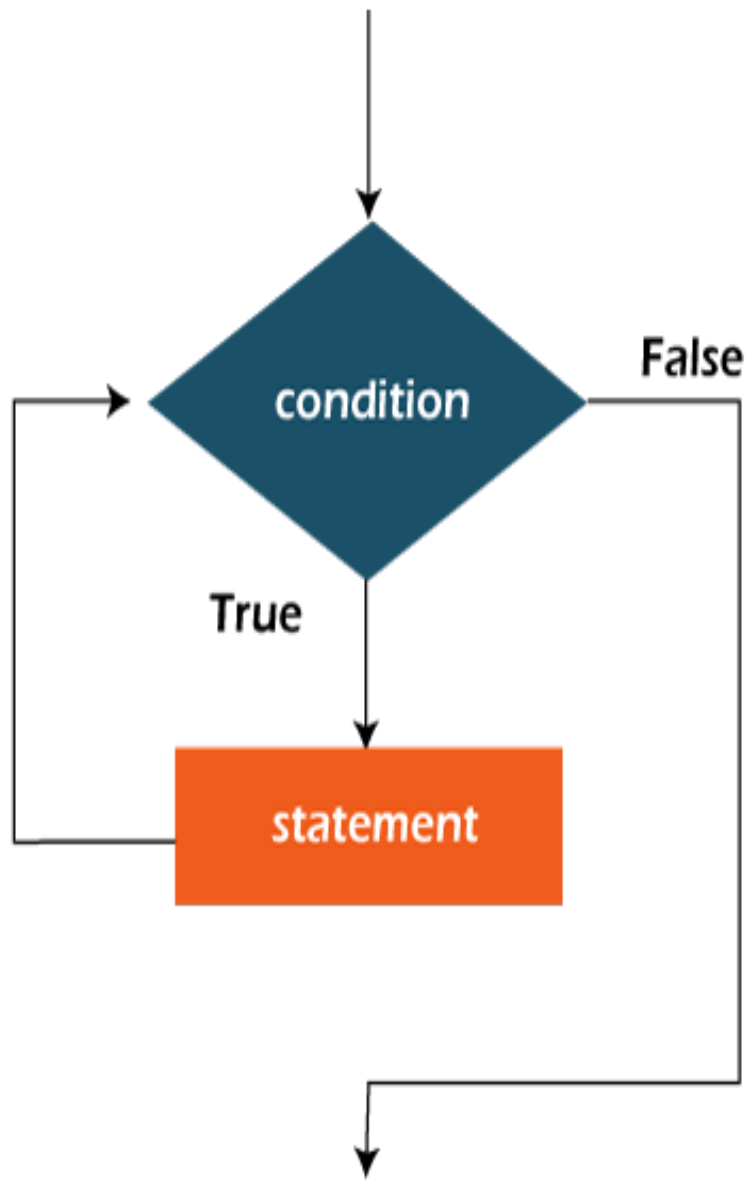
```
4
```

```
D:\Test>
```

do while loop



Outside do-while loop



```
class WhileLoop{
```

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```
public static void main(String args[])
{
    int i=0;
    while(i<=10)
    {
        System.out.println(i);
        i++;
    }
}
```

4

4

D:\Test>javac WhileLoop.java

D:\Test>java WhileLoop

0

1

2

3

4

5

6

7

8

9

10

D:\Test>

```
for(int i=0;i<=10;i++)
{
    SOP(i)
}
```

```
class WhileLoop{
```

```
    public static void main(String args[])
```

```
    {
```

```
        int i=0;
```

```
        ++i;
```

```
        while(true)
```

```
        {
```

```
            System.out.println(i);
```

```
        }
```

```
    }
```

```
}
```

```
    for(;;true;)
```

```
    {
```

```
    }
```

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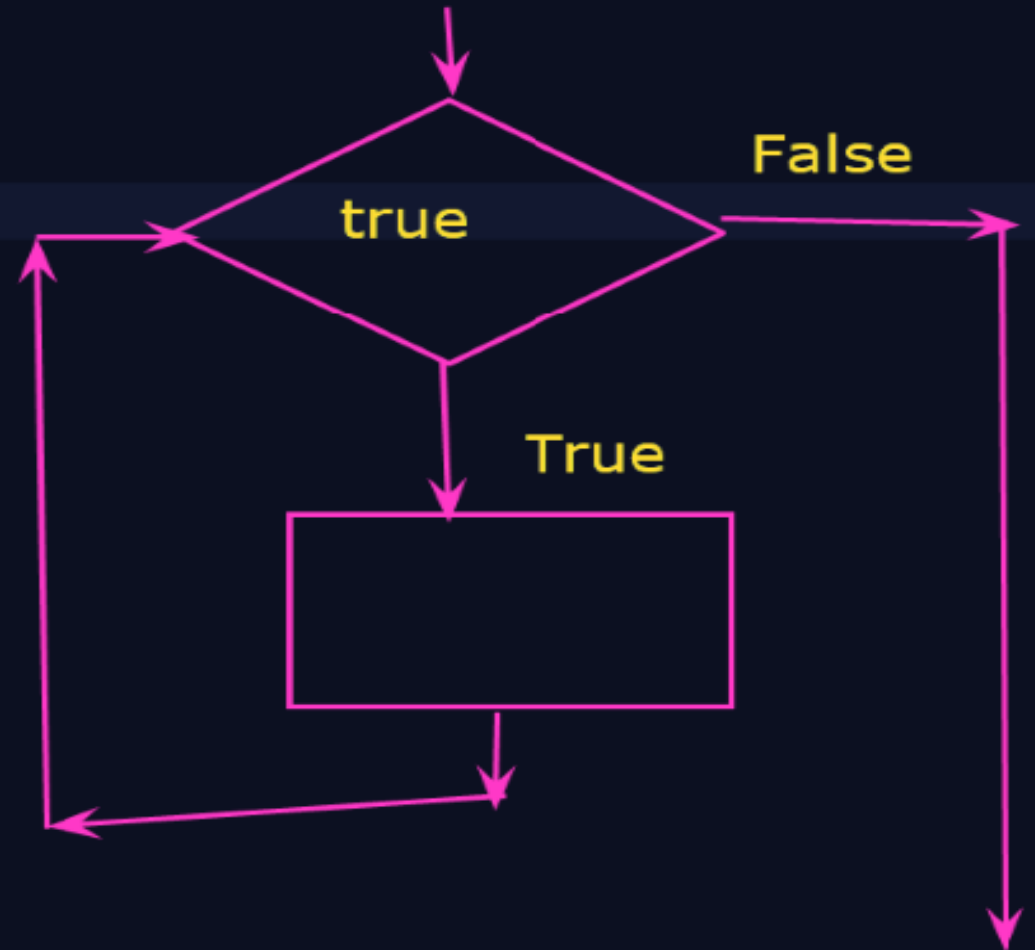
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class Pattern1{

public static void main(String args[])

{

for(int i=1;i<=10;i++)

{

for(int i=1;i<=10;i++)

{

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

}

}

}

Nested for loop

}

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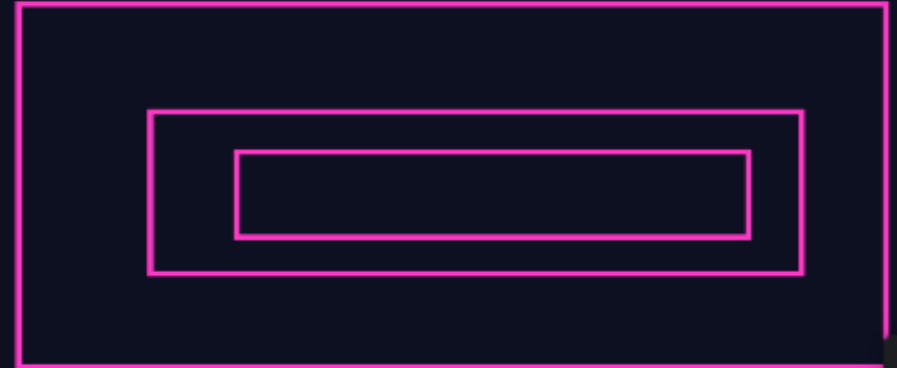
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class Pattern1{

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

```
    for(int i=1;i<=10;i++)
```

```
    {
```

```
        for(int i=1;i<=10;i++)
```

```
        {
```

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

```
        }
```

```
    }
```

```
}
```

Nested for loop

```
}
```

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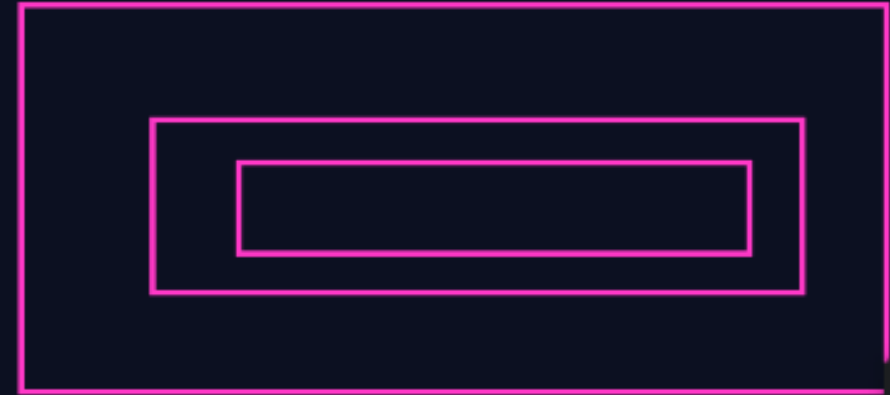
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```
class Pattern1{
```

```
public static void main(String args[]
```

```
{
```

```
for(int i=1;i<=3;i++)
```

```
{
```

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

```
{
```

```
System.out.println(i);
```

```
}
```

```
}
```

```
}
```

```
}
```

Who can see what you share here? Recording On

Microsoft Windows [Version 10.0.22000.1455]
(c) Microsoft Corporation. All rights reserved.

D:\Test>javac Pattern1.java

D:\Test>java Pattern1

1

1

1

2

2

2

3

3

3

D:\Test>

```
class Pattern3{
```

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

```
    for(int i=1;i<=3;i++)
```

```
    {
```

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

```
        {
```

```
            System.out.println(i+", "+
```

```
        }
```

```
    }
```

```
}
```

```
}
```

```
1 : 3  
2 : 1 2  
2 : 2  
2 : 3  
3 : 1  
3 : 2  
3 : 3
```

R1

	C1	C2	C3	C4	C5
R1	1,1	1,2	1,3	1,4	1,5
R2					
R3					

R2

```
D:\Test>javac Pattern3.java
```

```
D:\Test>java Pattern3
```

```
1,1  
1,2  
1,3
```

```
2,1  
2,2  
2,3
```

```
3,1  
3,2  
3,3
```

Row=>i
Column=>j

```
D:\Test>
```

```
class Pattern3{
```

```
public static void main(String args[]
```

```
{
```

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

```
    {
```

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

```
        {
```

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

```
        }
```

```
        System.out.println();
```

```
    }
```

```
}
```

```
}
```

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C:\windows\system32\cmd.exe

```
D:\Test>java Pattern3
1111122222333334444455555
D:\Test>javac Pattern3.java
```

```
D:\Test>java Pattern3
```

```
11111
22222
33333
44444
55555
```

Print i

```
D:\Test>javac Pattern3.java
```

```
D:\Test>java Pattern3
```

```
12345
12345
12345
12345
12345
```

Print j

```
D:\Test>
```



```
class Pattern6{
```

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

```
for(int i=7; i>=1; i--)
```

```
{
```

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

```
{
```

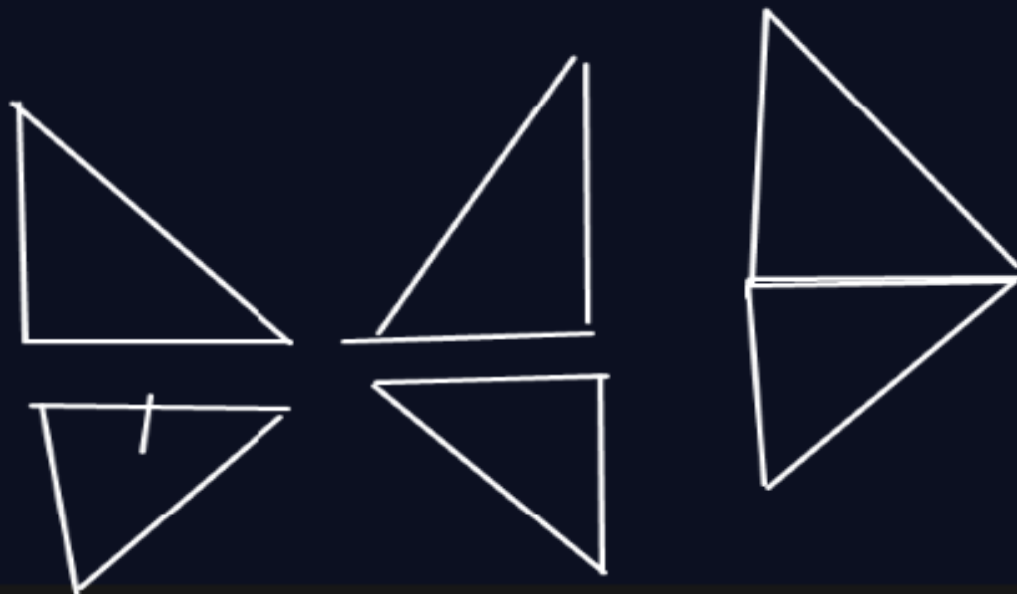
```
System.out.print(j+" ");
```

```
}
```

```
System.out.println();
```

```
}
```

```
}
```



7
6
5
4
3
2
1

1	2	3	4	5	6	7
1	2	3	4	5	6	
1	2	3	4	5		
1	2	3	4			
1	2	3				
1	2					
1						

D:\Test>

