



JAVA

Loops in JAVA

- **Loops** : Loops are used to execute a set of instructions/ functions repeatedly when some conditions become true.
- In Java we have three Loops:
 - For loop
 - Do-while loop
 - While loop

JAVA: Loops in Java

For Loop

The For Loop is used to iterate a part of program multiple times. If the number of iteration is fixed.

While loop

The while Loop is used to iterate a part of program multiple times. If the number of iteration is not fixed.

do-while loop

The do-while Loop is used to iterate a part of program multiple times. If the number of iteration is not fixed and you must have to execute loop at least once.

- **For Loop**: We can initialize the variable, check condition and increment/decrement value.
- **Syntax** :

```
for(initialization; condition; incr/decr){  
    //statement or code to be executed  
}
```

- **While Loop**: while loop is preferred to use, If the number of iteration is not fixed.
- **Syntax** :

```
while(condition){  
//code to be executed  
}
```

- **do-while Loop**: If the number of iteration is not fixed and you must have to execute the loop at least once, it is recommended to use do-while loop.
- **Syntax** :
do{
//code to be executed
}**while**(condition);

Will see you in Next Lecture...

Thank you!

A close-up photograph of a hand holding a black marker, completing the cursive word 'Thank you!' on a white surface. The marker is positioned at the end of the exclamation mark, and the hand is visible on the right side of the frame.

See you in next lecture ...