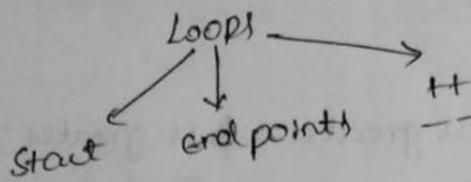


Loops

2 Sep 2025

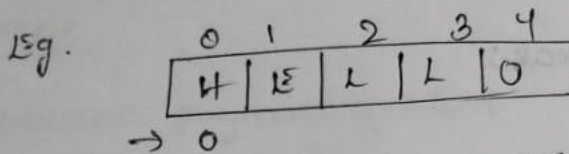
Loops are used to iterate for eg. elements in an array



loop can be -

Small $\xrightarrow{+1}$ Big value.

Big value $\xrightarrow{-1}$ Small



Loop used during -

i> set / collection of items.

ii> processing
 \swarrow \downarrow \searrow
 Searching math sort Filter

2> Generation of numbers

3> String manipulation. \rightarrow collection char

Homogeneous - Same data type elements.

Examples of loop

i> Generation 1 \rightarrow 10.

Start $\rightarrow 1$, Stop $\rightarrow 10$, $+1$

Syntax!

```
for (int index = 0; index <= 10; index = index + 1)
{
    System.out.println(" i.d", index);
}
```

Start Stop Increment

while

while (condition)
{

--

increment ++;

decrement --;

}

while is use when you don't know the number of items.

do-while

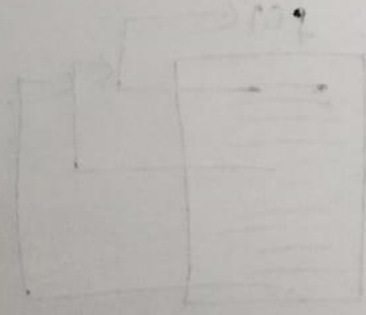
do
{

→ Atleast one execution

} while (condition) → condition is check in last

loop → break and continue are the keywords for specific action inside loop.

* continue → is used skip current execution and continue with loop



FileEditSelectionViewGoRunTerminalHelp

Alg365Java

ALG365JAVA

BasicPrograms.classU

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BasicPrograms1.classU

BasicPrograms1.java2,U

Forloop.classU

Forloop.javaU

GreaterSmaller.classU

GreaterSmaller.javaU

Namaste.javaU

Operators.java1,U

Positivenegative.classU

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Recursion.classU

Recursion.javaM

Schooldata.javaU

StudentResultCondition.classU

StudentResultCondition.javaU

OUTLINE

MYSQL

Forloop.java

Forloop > main(String[])

1public class Forloop {

2Run | Debug

3public static void main(String[] args){

4for(int index=0;index<10;index++){

5if(index == 5)

6continue;

7System.out.print(" " +index);

8}

9

10int count =10;

11while(count<20){

12System.out.print(" " + count);

13count++;

14}

15count=20;

16

17do{

18System.out.print(" "+ count);

19count++;

20}while(count<30);

21}

22

23

PROBLEMS5

OUTPUT

DEBUG CONSOLE

TERMINAL

PORTS

PS C:\Users\Vivek G V\OneDrive\Desktop\Alg365Java> javac Forloop.java

PS C:\Users\Vivek G V\OneDrive\Desktop\Alg365Java> java Forloop

0 1 2 3 4 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29

PS C:\Users\Vivek G V\OneDrive\Desktop\Alg365Java>

Run: Forloop

Run: Forloop

23°C

Partly cloudy

Search

ENG IN

10:49 PM

05-09-2025