

For Loop by Munawar

For Loop

The syntax of a for loop looks like this:

For(initialize, check bool expression, update)

{

// code ----- > this keeps executing as long as the condition is true.

}

A for loop is usually used to execute a piece of code for specific number of times.

Quick quiz: Write a program to print first n odd numbers using for loop.

```
//quiz
// 2n= even numbers 0,2,4,6,,8
// 2n+1= odd numbers 1,3,5,7,9

for(int n=0;n<=10;n++){
    System.out.println(2*n+1);
}
```

Decrementing for loop

for(i=7; i!=0; i--)

{

System.out.println(i);

}

```
//decreamenting for loop
//      for(int i=5;i!=0;i--)
//      {
//          System.out.println(i);
//      }
```

This for loop keeps running until i becomes 0

Quick quiz: Write a program to print first n natural numbers reverse order.

```
//quiz decreamenting for loop
for(int i=20;i!=0;i--){
    System.out.println(i);
}
```

Source Code

```
import java.util.Scanner;
public class Main {
    public static void main(String[] args) {

        //      // for loop
        //      for (int i=1;i<=10;i++){
        //          System.out.println(i);
        //      }

        //quiz
        // 2n= even numbers 0,2,4,6,,8
        // 2n+1= odd numbers 1,3,5,7,9

        //      for(int n=0;n<=10;n++){
        //          System.out.println(2*n+1);
        //      }

        //decreamenting for loop
        //      for(int i=5;i!=0;i--)
        //      {
        //          System.out.println(i);
        //      }

        //quiz decreamenting for loop
        for(int i=20;i!=0;i--){
            System.out.println(i);
        }
    }
}
```

Thank You