**Java Interview Questions**

Java is one of the **most popular and universal programming languages and platforms of the modern IT industry** and can be found in virtually every type of software application. The Java programming language is used in virtually every nook and cranny of our lives; from applications on our desktops to those on the web, from supercomputers to video games, to cell phones to the Internet.

**Top 10 applications of Java**

**Desktop applications**

**Mobile applicatons (Android studio)**

**Web applications**

**Enterprise Applications (JEE for banking application)**

**Gaming application**

**Scientific Applications**

**Business Applications**

**Big data technique (Hadoop)**

**Cloud computing**

**distributed computing**

Java coding skills have therefore always been the deciding factor in any Java Interview. You will be assessed on your coding skills regardless of whether you are a novice or an expert. Thus, anyone seeking a position as a developer needs to brush up on their coding abilities before attending an interview. Learn More.

In this article, we will cover some of the most popular Java Programming Interview Questions and Answers based on diverse topics such as **Java basics, String, Java array, Java Matrix, OOPS, Java Multithreading and Exception Handling, etc.**

This collection of questions will help you brush up and remain sharp on your coding skills before your next interview. It caters to both freshers and experienced candidates. Additionally, we have included the program's outputs which provide an insight into how it operates.

### 1. Write a program in Java to generate the Nth Fibonacci Number using Iteration and Constant Space.

Fibonacci Series is a series in which the Nth term is the sum of the previous 2 terms i.e. (N-1)th and (N-2)th terms. The first 2 terms of the Fibonacci sequence are always known. They are 0 and 1 respectively. After this, the further terms can be generated as follows:

So, in general, we can derive a generic term i.e.

Fib(N) = Fib(N - 1) + Fib(N - 2)

Java Program to generate Nth Fibonacci Number using Iteration.

import java.util.\*;

class Main {

public static void main(String args[]) {

// Your code goes here

Scanner scn = new Scanner(System.in);

int n = scn.nextInt();

int a = 0; //0th fibonacci number

int b = 1; //1st fibonacci number

if(n < 0) {

System.out.println("N cannot be negative");

return;

}

if(n == 0) System.out.println(a);

else if(n == 1) System.out.println(b);

else {

int c = 0;

for(int i=2;i<=n;i++) {

c = a + b;

a = b;

b = c;

}

System.out.println(c);

}

}

}

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**Java Program to Count the Number of Digits in a Number.**

import java.util.\*;

class Main {

public static int countDigits(int n) {

if(n == 0) return 1;

//if a negative number is entered

if(n < 0) n = -n;

int res = 0;

while(n != 0) {

n = n/10;

res++;

}

return res;

}

public static void main(String args[]) {

// Your code goes here

Scanner scn = new Scanner(System.in);

int n = scn.nextInt(); //input the number

System.out.println("The number of digits in " + n + " are: " + countDigits(n));

}

}

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