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Java Questions

1. Explain about the main method in Java:

It is a default signature which is predefined in the JVM. It is called by JVM to execute a program line by line and end the execution after completion of this method. String args[]: The main() method also accepts some data from the user.

2. What are the different Control flow statements available in Java:-

Decision-making statements evaluate the boolean expression and control the program flow depending upon the result of the condition provided. There are two types of decision making statements in Java, ie)
if Statement & Switch Statement.

3. What is the difference between break & continue statements:-

The break statement is used to terminate the loop immediately. The continue statement is used to skip the current iteration of the loop. break keyword is used to indicate break statement in Java Programming.

continue keyword is used to indicate continue statement in Java programming.

4. What is an array? How will you declare an array in Java?

We declare an array in Java as we do other variables, by providing a type and name : int[] myArray; To initialize or instantiate an array as we declare it, meaning we assign values as when we create the array, we can use the following shorthand syntax : int[] myArr = {1,2,3};

5. When will you get ArrayIndexOutOfBoundsException?

The ArrayIndexOutOfBoundsException exception is thrown if a program tries to access an array index that is negative, greater than, or equal to the length of the array. The ArrayIndexOutOfBoundsException exception is a run-time exception. Java Compiler does not check for this error during compilation.

6. Define the syntax to create an object for a class.

When we create an instance of the class by using the new keyword, it allocates memory (heap) for the newly created object and also returns the reference of that object to that memory. The new keyword is also used to create an array. The syntax for creating an object is: className object = new className.

7. What is variable? How will you declare a variable in Java?

To declare a variable in Java, all that is needed is the data type followed by the variable name: int numberofDays; In the above example, a variable called "numberofDays" has been declared with a data type of int. Notice how the line ends with a semi-colon.

8. What is String in Java? Is it a data type?

String is a class in Java & reference data type. String is an array of characters so it is not a primitive data type.

9. What are the different ways to create the String object in Java

There are two ways to create a String object:

1. By string literal : Java String literal is created by using double quotes, for example : String s = "welcome";

2. By new keyword : Java String is created by using a keyword "new". For example String s = new String ("welcome");

10. What is the difference between .equals and == ?

== checks if both objects points to the same memory location whereas .equals() evaluates to the comparison of values in the objects. If a class does not override the equals method, then by default, it uses the equals (Object o) method of the closest Parent class that has overridden this method.