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Q1: List down the important features of Java 1.8?
ans-
 Some of the important Java 8 features are;
 -forEach() method in Iterable interface
 -default and static methods in Interfaces
 -Functional Interfaces and Lambda Expressions
 -Java Stream API for Bulk Data Operations on Collections
 -Java Time API
-Collection API improvements
-Concurrency API improvements
-Java IO improvements
Q2: Differntiate between C, C++ & Java.
ans- Features of C Language-
1/ Machine independent and portable
2/ Modern Control Flow and Structure
3/ Rich set of operators
4/ Simple, Fast, and efficient
5/ Case-sensitive
6/ Low memory use
7/ Easily extendable
8/ Statically-typed
Features of C++ Language-
1/ Case-sensitive
2/ Compiler based
3/ Platform-independent
4/Portability
5/ Dynamic memory allocation
Features of Java
1/Object-oriented
2/Architecture-neutral
3/Platform independent
4/Dynamic and Distributed
5/Robust
6/Secure
7/Multithreaded
-BASIS------C LANG------C++
LANG-----JAVA-----JAVA------
-Origin - The C language is based on BCPL. | The C++ language is based on
the C language. | The Java programming language is based on both C and C+
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-Programming Pattern-It is a procedural language. | It is an object-oriented
programming language. | It is a pure object-oriented programming language.
-Approach - It uses the top-down approach.
                                         | It uses the bottom-up approach.
     It also uses the bottom-up approach.
-Dynamic or Static-It is a static programming language. | It is also a static
programming language. It is a dynamic programming language.
-Code Execution- The code is executed directly.
                                                  The code is executed
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-File Generation- It generates the .exe, and .bak, files.| It generates .exe

|It is platform-independent because of byte code.

-Platform Dependency- It is platform dependent.| It is platform dependent.

directly. | The code is executed by the JVM.

- file. |It generates .class file.
- -Source File Extension- The source file has a .c extension. | The source file has a .cpp extension. The source file has a .java extension.
- -Pointer Concept- It supports pointer. | It also supports pointer. | Java does not support the pointer concept because of security.
- -Union and Structure Datatype- It supports union and structure data types.| It also supports union and structure data types.| It does not support union and structure data types.
- -Overloading- It does not support the overloading concept.| Method and operator overloading can be achieved. |Only method overloading can be achieved.
- -goto Statement -It supports the goto statement.| It also supports the goto statement.| It does not support the goto statements.
- -Used for- It is widely used to develop drivers and operating systems.| It is widely used for system programming.| It is used to develop web applications, mobile applications, and windows applications.
- -Array Size- An array should be declared with size. For example, int num[10].| An array should be declared with size. | An array can be declared without declaring the size. For example, int num[].