ASSIGNMENT

1. What is Input and Output Stream in Java?

Ans: A stream can be defined as a sequence of data. The InputStream is used to read data from a source and

the MutputStream is used for writing data to a destinationP

2. What are the methods of OutputStream4

L write() - writes the specified byte to the output streamO

L write(byte[] array) - writes the bytes from the specified array to the output streamO

L flush() - forces to write all data present in the output stream to the destinationO

L close() - closes the output stream

3. What is serialization in Java?

Ans: Serialization is the process of converting an object into a stream of bytes to transfer it over a network or to

store it in a file or database. In Java, serialization is done by implementing the Serializable interfaceP

4. What is the Serializable interface in Java?

Ans: The Serializable interface in Java is a marker interface that has no methods. It is used to mark classes that

can be serialized, meaning their object instances can be converted into a stream of bytesP

5. What is descrialization in Java?

Ans: Deserialization is the process of converting a stream of bytes back into an object instance. This is done

after an object has been serialized

6. How is serialization achieved in Java?

Ans: Serialization is achieved in Java by implementing the Serializable interface. When an object is serialized, its

state is converted into a stream of bytes, which can then be transferred over a network or stored in a file or

databaseP

7. How is descrialization achieved in Java?

Ans: Deserialization is achieved in Java by reading a stream of bytes and using them to recreate the original

object instance. This is done by calling the readMbject() method of an MbjectInputStream instanceP

8. How can you avoid certain member variables of class from getting Serialized?

Ans: Mark member variables as static or transient, and those member variables will no more be a part of

Serialization

9. What classes are available in the Java IO File Classes API?

Ans: The following classes are available in the Java IM API and are important to work with files in Java

File

RandomAccessFile

FileInputStream

FileReader

FileMutputStream

FileWriter

10. What is Difference between Externalizable and Serialization interface?

Ans:

Serializable	Externalizable
A serializable interface is used to	An externalizable interface used to
implement serialization	implement Externalization
Serializable is a marker interface i.e., it	The externalizable interface is not a marker
does not contain any method.	interface and thus it defines two
	methods writeExternal() and readExternal().
Default serialization does not require any	A public no-arg constructor is required
no-arg constructor.	while using an Externalizable interface.
Transient keywords play an important role	Transient keywords won't play any role.
here.	
Using a serializable interface we save the	Based on our requirements we can save
total object to a file, and it is not possible	either the total object or part of the object.
to save part of the object.	
In serialization, JVM ignores transient	Programmer can write their own logic to
variable during serialization and	ignore some of the variables during
deserialization of java object	externalization of java object