FAQ

Module-4	
Question 1.	**What is the main benefit of using File Input/Output (I/O) Operations in the Java programming language?**
Answer	Java provides file input/output (I/O) activities that facilitate the reading and writing of data to files. These actions enable the storing and retrieval of data in a durable manner, hence supporting the long-term data management needs of applications.
Question 2.	**How does multithreading enhance the efficiency of a Java application?**
Answer	The use of multithreading enables the concurrent execution of several threads, resulting in improved utilisation of CPU resources and expedited job completion. This is particularly advantageous in applications that include separate parallelizable activities.
Question 3.	**Why are generics important in Java development?**

Answer	Generics provide a mechanism for ensuring type safety, enabling developers to use generic types in lieu of raw types. This practice results in a reduction of runtime errors and type-casting, hence contributing to the production of code that is cleaner and more easily maintained.
Question 4.	**What are the advantages of using annotations in Java programmes?**
Answer	Annotations serve as a means of providing information pertaining to code. The purpose of these elements is not to directly alter the execution of the code, but rather to provide additional details that are often used by frameworks or compilers to impact the behaviour of the code or assist in the processes of code creation and validation.
Question 5.	**What is the role of JDBC in Java applications?**
Answer	The Java Database Connectivity (JDBC) provides a universally accepted application programming interface (API) that facilitates the connection between Java applications and relational databases. This functionality enables developers to conduct SQL

	searches and update statements inside Java programmes, facilitating effective and efficient data management.