Arrays	Collection
<ul> <li>Arrays are fixed in size i.e once the array with the specific size is declared then we can't alter its size afterward.</li> <li>Arrays due to fast execution consumes more memory and has better performance.</li> <li>Arrays can hold the only the same type of data in its collection that is only homogeneous data types elements are allowed in case of arrays.</li> <li>Arrays can hold both object and primitive type data.</li> <li>Arrays due to its storage and internal implementation better in performance.</li> </ul>	<ul> <li>The collection is dynamic in size i.e based on requirement size could be get altered even after its declaration.</li> <li>Collections, on the other hand, consumes less memory but also have low performance as compared to arrays.</li> <li>Collection, on the other hand, can hold both homogenous and heterogeneous elements.</li> <li>On the other hand, collection can hold only object types but not the primitive type of data.</li> <li>Collection on the other hand with respect to performance is not recommended to use.</li> </ul>

Q3) What are differences between checked and unchecked exceptions in java? Create user defined checked and unchecked exceptions.

Checked Exception	Unchecked Exception
<ul> <li>Checked exception occurs at compile time.</li> <li>The compile checks a checked exception.</li> <li>These types of exceptions can be handled at the time of compilation.</li> <li>They are the sub-class of the exception class.</li> </ul>	<ul> <li>Unchecked exception occur at runtime.</li> <li>The compiler does not check these types of exceptions.</li> <li>These types of exceptions cannot be a catch or handle at the time of compilation, because they ger generated by the mistakes in the</li> </ul>

- Here, the JVM needs the exception to catch and handle.
- Examples of checked exceptions:
  - 1. File Not Found Exception
  - 2. No Such Field Exception

program.

- They are runtime exceptions and hence are not a part of the Exception class.
- Here, the JVM does not require the exception to catch and handle.
- Examples of unchecked exceptions:
  - 1. No Such Element Exception
  - 2. Undeclared Throwable Exception