b) Explain the difference between checked and unchecked exception?
Create user-defined checked and unchecked exception.

Checked Exception	Unchecked Exception
- Checked exception occurs at compile time. - The compiler checks for exception. - They are the subclass of exception class. - Here, JVM needs the exception to catch and handle. - These are the type of exceptions can be handled at the time of compilation. - Examples of checked exception - File Not Found Exception. - Class Not Found Exception. - No Such Field Exception.	- Unchecked exception occurs at run time. - The compiler does not check for exception. - They are the runtime exceptions and hence are not part of the exception class. - Here, JVM does not need exception to catch and handle. - These are type of exception that cannot be catch at the time of compilation, because they get generate by the mistakes in the program. - Examples of unchecked exception - Empty Stack Exception. - Null Pointer Exception. - Array Index Out Of Bound Exception.