TEN EXCEPTIONS FROM THE EXCEPTIONS CLASS

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1. \*IOException\*

- Description: This exception is thrown when an input or output operation fails or is interrupted.

- Use Case: Used when working with file I/O, network communication, or other I/O operations.

java

throw new IOException("File not found.");

2. \*SQLException\*

- Description: Thrown when there’s a database-related issue such as a query failure or connection error.

- Use Case: Typically occurs when interacting with relational databases via JDBC.

java

throw new SQLException("Database connection failed.");

3. \*ClassNotFoundException\*

- Description: This exception is thrown when an application tries to load a class that cannot be found.

- Use Case: Often occurs when using dynamic class loading via Class.forName().

java

throw new ClassNotFoundException("Class not found.");

4. \*NoSuchMethodException\*

- Description: Thrown when a particular method is called that doesn't exist.

- Use Case: When using reflection to invoke a method that does not exist in the class.

java

throw new NoSuchMethodException("Method does not exist.");

5. \*InterruptedException\*

- Description: This exception is thrown when a thread is waiting, sleeping, or otherwise occupied and is interrupted.

- Use Case: Used when working with threads, typically in multithreading environments.

java

throw new InterruptedException("Thread was interrupted.");

6. \*FileNotFoundException\*

- Description: A subclass of IOException, thrown when a file with the specified pathname does not exist or cannot be opened.

- Use Case: Often used in file-handling operations.

java

throw new FileNotFoundException("File not found on the specified path.");

7. \*ParseException\*

- Description: This exception is thrown when parsing a string as a date or another data type fails.

- Use Case: Typically thrown when using classes like SimpleDateFormat to parse dates from strings.

java

throw new ParseException("Failed to parse date", 0);

8. \*MalformedURLException\*

- Description: Thrown when a URL is malformed, i.e., the string cannot be parsed as a valid URL.