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UIAR/11286

1.what are the differences between error and exception handling

Ans.

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| Error | Exception handling |
| An error is caused due to lack of system resources. | An exception is caused because of the code. |
| An error is irrecoverable | An exception is recoverable |
| There is no means to handle an error by the program code. | Exceptions are handled using three keywords "try", "catch", and "throw". |
| As the error is detected the program will terminated abnormally. | As an exception is detected, it is thrown and caught by the "throw" and "catch" keywords correspondingly. |
| Errors are classified as unchecked type. | Exceptions are classified as checked or unchecked type. |
| In Java, errors are defined "java.lang.Error" package | In Java, an exceptions are defined in"java.lang.Exception". |

2.what are the exception handling keyword in java?

Ans.Try,catch,finallythrow and throws are the exception handling keywords in java

3. what are the differences between throw and throws in java?

Ans.

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| Throw | Throws |
| Throw keyword is used to throw an exception explicitly. | Throws clause is used to declare an exception, which means it works similar to the try-catch block. |
| Throw is followed by an instance of Exception class | throws is followed by exception class names. |
| Throw keyword is used in the method body to throw an exception | throws is used in method signature to declare the exceptions that can occur in the statements present in the method. |
| You can throw one exception at a time | you can handle multiple exceptions by declaring them using throws keyword. |

4. what are the differences between final,finally and finalize in java?

Ans.

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| final | finally | finalize |
| Final is used to apply restrictions on class, method and variable. Final class can't be inherited, final method can't be overridden and final variable value can't be changed. | Finally is used to place important code, it will be executed whether exception is handled or not. | Finalize is used to perform clean up processing just before object is garbage collected. |
| Final is a keyword | Finally is a block | Finalize is a method |