Exception Handling

There are two types of errors: syntax errors and logical errors. These errors can be fixed. However, exceptions throw because of user inputs.

Exception is an abnormal condition or event that disrupts the normal flow of the program.

Diagram

Description automatically generated

There are mainly four exception handling keyword

* Try : test a block of code for errors
* Except : handle the error
* Else: define a block of code to be executed if no errors were raised
* Finally : execute code, regardless of the result of the try- and except blocks
* Raise : choose to throw an exception if a condition occurs
* **Using Exception Object**

1. **try … except**

Graphical user interface, text, application, chat or text message, email

Description automatically generated

Text

Description automatically generated

## Multiple exception

## Graphical user interface, text, application Description automatically generated

A screenshot of a computer

Description automatically generated

Graphical user interface, text

Description automatically generated

1. Else

Block of code to be executed when there is no errors/exception were raised.

Graphical user interface, text, application, chat or text message

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A picture containing logo

Description automatically generated

1. Finally : this block will execute regardless if the try block raises an error or not

**When there is no exception/error:**

Graphical user interface, text

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Chart

Description automatically generated with low confidence

**When there is an exception/error:**

Graphical user interface, text, application

Description automatically generated

A screenshot of a computer

Description automatically generated with low confidence

1. **Raise** using this keyword, developer can choose to throw an exception when needed

Raise an error and stop the program if x is lower than 0

Text

Description automatically generated Graphical user interface, text, application, email

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1. **Using Exception Object**

Text

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A screenshot of a computer

Description automatically generated with medium confidence

Text, letter

Description automatically generated Text

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