

Exceptions

Exception – an error that occurs during runtime

Traceback – the error message that provides details about the exception

```
try:
    statement(s)
except ExceptionName:
    statement(s)
```

1. What happens if a statement in the try suite raises an exception?

1. When the exception is specified in except clause:
 1. Handler immediately following except clause executes
 2. Continue program after try/except statement
2. Other exceptions:
 1. Program halts with tracebackerror message

2. What happens if no exception is raised?

1. Handlers are skipped
2. Continue the program after the try/except statement

Example 1: Single Block

```
try:
    city_data = open('CityProfit.txt', 'r')
    q1_profit = float(city_data.readline())
    city_data.close()
except FileNotFoundError:
    print("Could not find CityProfit.txt in current directory")
except ValueError:
    print("Could not convert q1_profit to float")
```

Example 2: Multi-Block

```
file_found= True
# Try to open the file
try:
    city_data = open('CityProfit.txt', 'r')
except FileNotFoundError:
    print("Could not find CityProfit.txt in current directory")
    file_found = False

if file_found:
    # Try to read float values
    try:
        q1_profit = float(city_data.readline())
    except ValueError:
        print("Could not convert q1_profit to float")
    city_data.close()
```