

# Multiple Exceptions & Custom Exceptions

## Multiple Exceptions in Python:

- A program may face **different types of errors**.
- Each error type can be handled separately with multiple `except` blocks.

### Syntax:

```
try:  
    #code  
except NameOfError:  
    print("Error: ")  
except NameOfError:  
    print("Error: ")  
except Exception as e:  
    print("Unexpected Error:", e)
```

## One Line for Multiple Exceptions:

```
try:  
    x = int("abc")  
except (ValueError, TypeError) as e:  
    print("Error:", e)
```

- Multiple exceptions can be handled in a **single block** if the handling is the same.

## Custom Exceptions:

- Sometimes we need to define **our own error** for specific conditions.
- We create a class that inherits from the built-in `Exception` class.

### Example:

```
class NegativeNumberError(Exception):  
    pass  
def check_number(num):  
    if num < 0:  
        raise NegativeNumberError("Negative numbers not allowed!")  
    else:  
        print("Number is:", num)  
try:  
    check_number(-5)  
except NegativeNumberError as e:  
    print("Custom Exception:", e)
```

### Importance:

- Prevents the program from crashing.
- Handles different error types in a clean way.
- Custom exceptions allow **specific error messages** (e.g., in banking, login, data validation).
- Improves program reliability and user experience.

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