

LEC 09 - ADTs and Exceptions

Raising Exceptions

- An exception is a special kind of object in python that represent a kind of error
 - Used to report the type of error and the relevant details
- Raising an exception is a way to interrupt the normal execution of a program

Types of Exceptions:

- Generic exception class
- Other predefined exceptions
 - NotImplementedError, IndexError, etc.
- We can define our own custom exceptions
 - Use a subclass to define new exceptions

Example Usage of Exceptions

pop()

- Removes an item of the top of the stack
- When the stack is empty raise an exception

```
# In the stack class
def StackEmptyError(Exception):
    def __str__(self) -> str:
        return "You called pop on an empty stack..."
```