



PYTHON BOOTCAMP

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ERROR HANDLING



Error Handling:

- process of anticipating, catching, and managing errors that occur during program execution

```
3  # Basic exception handling
4  try:
5      number = int(input("Enter a number: "))
6      result = 10 / number
7      print(f"Result: {result}")
8  except ValueError:
9      print("Invalid input! Please enter a number.")
10 except ZeroDivisionError:
11     print("Cannot divide by zero!")
```

```
27  # Using else and finally
28  try:
29      file = open("data.txt", "r")
30  except FileNotFoundError:
31      print("File not found!")
32  else:
33      # Executes if no exception occurred
34      content = file.read()
35      print("File read successfully")
36  finally:
37      # Always executes
38      if 'file' in locals() and not file.closed:
39          file.close()
40      print("Cleanup completed")
```

ERROR HANDLING



```
42  # Raising exceptions
43  def validate_age(age):
44      if age < 0:
45          raise ValueError("Age cannot be negative")
46      if age > 150:
47          raise ValueError("Age seems unrealistic")
48      return True
49
50  try:
51      validate_age(-5)
52  except ValueError as e:
53      print(f"Validation error: {e}")
```