

A large, semi-transparent dark red circle is positioned in the center of the slide, partially overlapping the text area.

# PYTHON BOOTCAMP

[www.jomhack.com](http://www.jomhack.com)

# 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}")
```