Python

Exception handling

Chapter 18

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Doubts

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Errors

- తప్పులు
- Problems in the program

Types of errors

- Syntax Errors
- Logical Errors(Exceptions)

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Difference between error and exception

- Syntax Errors
  - Program stops execution

- Logical Errors(Exceptions)
  - Unexpected behavior

Syntax error

- Wrong syntax

```python
class Join:
    def __init__(self)
        print('joined suresh techs channel')

    def welcome(self):
        print('welcome to suresh techs')


j1 = Join()
j1.welcome()
```

Let's see whether program stops execution

```python
class Join:
    def __init__(self)
        print('joined suresh techs channel')

    def welcome(self):
        print('welcome to suresh techs')

    def __del__(self):
        print('destructor')

j1 = Join()
j1.welcome()
```

Exception

- No problem in the syntax(syntactically correct) but there is a problem in the code

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What is the problem in this program?

```python
class Join:
    def __init__(self):
        print('joined suresh techs channel')

    def welcome(self):
        print('welcome to suresh techs')

    def __del__(self):
        print('destructor')

    def members(self):
        members=['nandu','ranju','ramu']
        print(members[3])

j1 = Join()
j1.welcome()
j1.members()
```
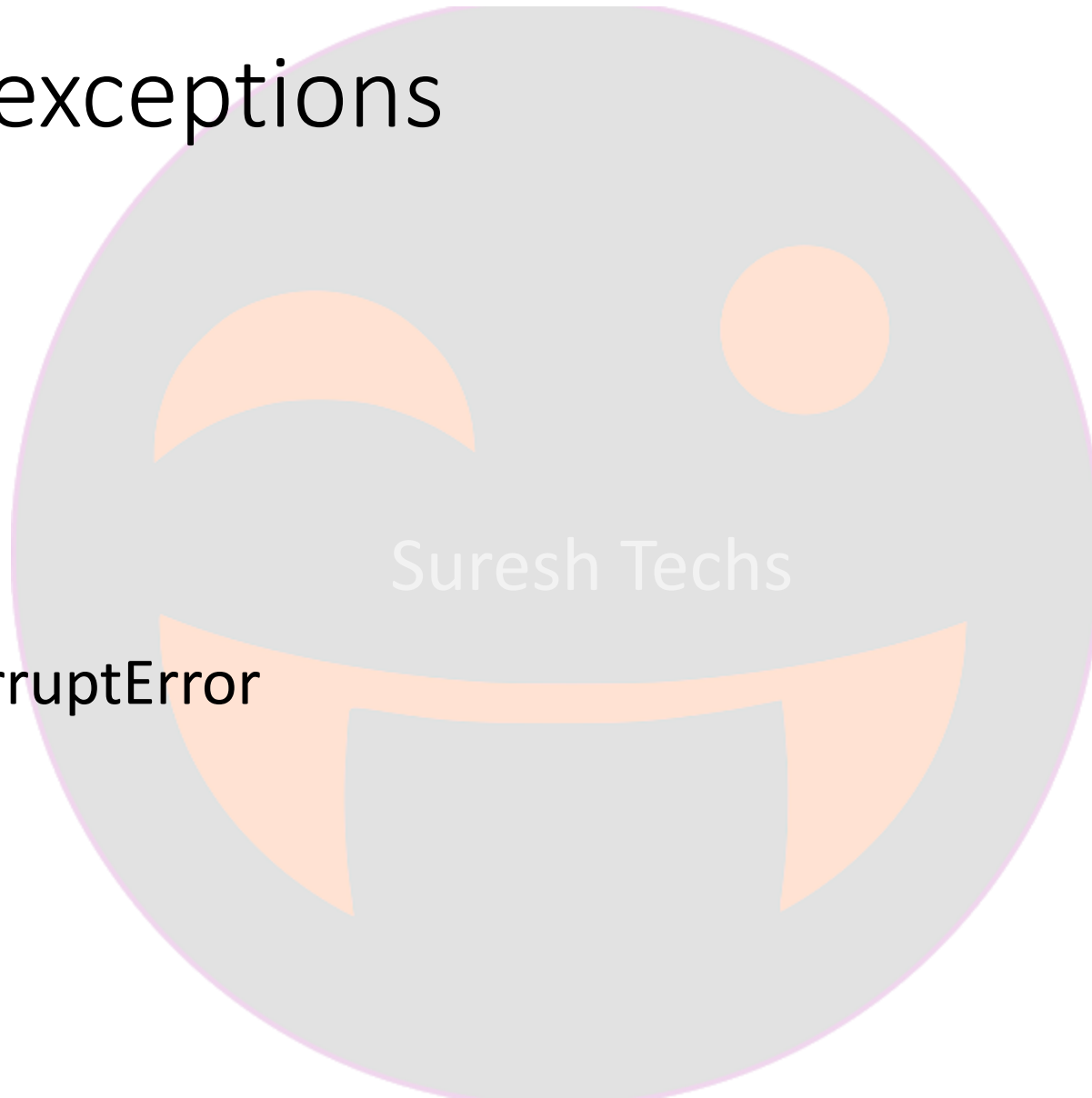
Common exceptions

- ValueError

- EOFError

- ImportError

- IOError

- KeyboardInterruptError

Who will handle these exceptions

- Exception handling
- **Try** and **Except**
- Syntax:

```
try:
    #Statements
except:
    #Executes when there is an error
```

Try

- First try clause will execute
- If there is any exception in the try clause, exception clause will execute
- Program stops if you don't handle exception using except clause
- Try can have more than one except clause
- Let's handle our exception using try except

```python
class Join:
    def __init__(self):
        print('joined suresh techs channel')

    def welcome(self):
        print('welcome to suresh techs')

    def __del__(self):
        print('destructor')

    def members(self):
        try:
            members=['nandu','ranju','ramu']
            print(members[3])
        except:
            print('Error in accessing member')

j1 = Join()
j1.welcome()
j1.members()
```

Let's see the exception class and description

- import sys
- sys.exe_info()[0]
- sys.exe_info()[1]

Handling specific error

- except ErrorClassName:
  - #statements

Else clause

- We can have an else clause for try except

- It should be placed after all the except clauses

- If there is no exception, then else clause will call

```python
def members(self):
    try:
        members=['nandu','ranju','ramu']
        member = members[2]
    except IndexError:
        print('Error in accessing member')
    else:
        print('member is',member)
```

finally

- Always executed after try and except clauses
- Important interview question

```python
def members(self):
    try:
        members=['nandu','ranju','ramu']
        member = members[2]
    except IndexError:
        print('Error in accessing member')
    else:
        print('member is',member)
    finally:
        print('always executes')
```

PYTHON

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