TECHelium

Lets Face it, now

Project Oriented Python

Exception Handling & Programs

Exception

- An exception is an event, which occurs during the execution of a program, that disrupts the normal flow of the program's instructions.
- In general, when a Python script encounters a situation that it can't cope with, it raises an exception.
- An exception is a Python object that represents an error.
- Handling Exception

```
try:
    You do your operations here;
    ......................
except ExceptionI:
        If there is ExceptionI, then execute this block.
except ExceptionII:
        If there is ExceptionII, then execute this block.
else:
        Do this if no exception
```

Example

```
#!/usr/bin/python
try:
        fh = open("testfile", "w")
        fh.write("This is my test file for exception handling!!")

except IOError:
        print "Error: can\'t find file or read data"
else:
        print "Written content in the file successfully"
        fh.close()
```

The except clause with no exceptions:

```
try:
        You do your operations here;
        ......................
except:
        If there is any exception, then execute this block.
        ......................
else:
        If there is no exception then execute this block.
```

- This kind of a **try-except statement catches all the exceptions that occur.**
- **Not** considered a good programming practice though, because it catches all exceptions but does not identify the root cause of the problem that may occur.

Print Exception

```
def function_exception (file1):
        try :
                fa = open(file1,"r")
        except Exception as ex:
                print "Exception happened", ex
```

```
>> function_exception(“hcck”)
Exception happened [Errno 2] No such file or directory: 'hhck'
```

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Thanks