

User Defined Exceptions in Python

Python throws errors and exceptions, when there is a code gone wrong, which may cause program to stop abruptly.

Python also provides exception handling method with the help of try-except. Some of the standard exceptions which are most frequent include IndexError, ImportError, IOError, ZeroDivisionError, TypeError and FileNotFoundError.

A user can create his own error using exception class.

Programmers may name their own exceptions by creating a new exception class. Exceptions need to be derived from the Exception class, either directly or indirectly.

Consider below example which demonstrates user define exceptions in Python

```
1 class AgeInvalid(Exception):
     def ___init___(self, value):
        self.value = value
3
5 def main():
     try
        age = int(input("Enter your age"));
        if (age < 18):
          raise (AgeInvalid("Age is invalid"));
10
     except AgeInvalid as error:
11
        print('A New Exception occured: ',error.value)
12
13
14 if __name__ == "__main__":
     main();
15
16
```

Output of above application