

Coding and solutioning

Team ID	PNT2022TMID41774
Project name	Emerging method for early detection of forest fire
Maximum marks	2 Marks

Exception handling:

- ✓ When a Python program meets an error, it stops the execution of the rest of the program.
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- ✓ Following that, we will learn about trying and except blocks and how to raise exceptions and make assertions.
- ✓ After that, we will see the Python exceptions list.

Code:

```
#Python code after removing the syntax error  
string = "Python Exceptions"  
  
for s in string:
```

```
if (s != o:  
    print( s )
```

Output:

```
if (s != o:  
    ^  
SyntaxError: invalid syntax
```

User-Defined Exception:

- ✓ In this case, a class that derives from `RuntimeError` is produced. Once an exception is detected, we can use this to display additional detailed information.
- ✓ An example of the class `EmptyError` is created using the variable `var`.

Code:

```
class EmptyError( RuntimeError ):  
  
    def __init__(self, argument):  
        self.arguments = argument
```

Once the preceding class has been created, the following is how to raise an exception:

Code

```
var = " "  
  
try:  
    raise EmptyError( "The variable is empty" )  
except (EmptyError, var):  
    print( var.arguments )
```

Output:

```
2 try:  
----> 3     raise EmptyError( "The variable is empty" )  
4 except (EmptyError, var):  
  
EmptyError: The variable is empty
```

Python Exception list:

Sr.No	Name of the Exception	Description of the Exception
1	Exception	All exceptions of Python have a base class.
2	StopIteration	If the next() method returns null for an iterator, this exception is raised.

3	SystemExit	The sys.exit() procedure raises this value.
4	StandardError	Excluding the StopIteration and SystemExit, this is the base class for all Python built-in exceptions.
5	ArithmeticError	All mathematical computation errors belong to this base class.