



A.Y. 2022-2023

Subject: Python

SAP ID: 60004220253 – Devansh Mehta

### Experiment No. 05

**Aim: To understand and implement exception handling**

**Code and Output:**

#### Value Error

```
List = [1,2,3,4,5]
a,b,c = List
print(a)
print(b)
print(c)
```

```
PS C:\Users\devan\OneDrive\Desktop\Python Codes> python -u "c:\Users\devan\OneDrive\Desktop\Python Codes\exp5.py"
Traceback (most recent call last):
  File "c:\Users\devan\OneDrive\Desktop\Python Codes\exp5.py", line 2, in <module>
    a,b,c = List
    ^^^^^
ValueError: too many values to unpack (expected 3)
```

#### ZeroDivision Error

```
n = 9
m = 0
print(n/m)
```

```
Traceback (most recent call last):
  File "c:\Users\devan\OneDrive\Desktop\Python Codes\exp5.py", line 3, in <module>
    print(n/m)
    ~~~
ZeroDivisionError: division by zero
```

#### Import Error

```
Import xyz
```

```
Traceback (most recent call last):
  File "c:\Users\devan\OneDrive\Desktop\Python Codes\exp5.py", line 3, in <module>
    import xyz
ModuleNotFoundError: No module named 'xyz'
```

#### Key Error

```
dict_data={'2': 'two', '4': 'four', '6': 'six'}
dict_data['5']
```



A.Y. 2022-2023

Subject: Python

SAP ID: 60004220253 – Devansh Mehta

```
Traceback (most recent call last):
  File "c:\Users\devan\OneDrive\Desktop\dict_data.py", line 5, in <module>
    dict_data['5']
    ~~~~~^
KeyError: '5'
```

### Index Error

```
list_data = [1, 2, 3, 4, 5]
x = list_data[6]
```

```
Traceback (most recent call last):
  File "c:\Users\devan\OneDrive\Desktop\list_data.py", line 5, in <module>
    x = list_data[6]
    ~~~~~^
IndexError: list index out of range
```

### User Defined Exception

```
class BaseError(Exception):pass
class HighValueError(Exception):pass
class LowValueError(Exception):pass
value = 29
while(1):
    try:
        n=int(input("Enter number:"))
        if n > value:
            raise HighValueError
        elif n < value:
            raise LowValueError
    except LowValueError:
        print("Very Low Value, Give input again")
        print()
    except HighValueError:
        print("Very High value , give input again")
        print()
    else:
        print("Nice!Correct answer")
        break
```

```
Enter number:8
Very Low Value, Give input again
```