

What is ZeroDivisionError, NameError, ValueError, TypeError? Write a program for the same.

ZeroDivisionError

```
In [5]: num = int(input("Enter a number: "))

n = num / 0
print(n)
```

Enter a number: 10

```
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ZeroDivisionError                                Traceback (most recent call last)
Cell In[5], line 3
      1 num = int(input("Enter a number: "))
----> 3 n = num / 0
      4 print(n)

ZeroDivisionError: division by zero
```

```
In [6]: num = int(input("Enter a number: "))

try:
    n = num / 0
    print(n)

except ZeroDivisionError as ze:
    print("Exception occurred:",ze)
```

Enter a number: 10

Exception occurred: division by zero

```
In [ ]:
```

NameError

```
In [7]: print("Name is",name)
```

```
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NameError                                Traceback (most recent call last)
Cell In[7], line 1
----> 1 print("Name is",name)

NameError: name 'name' is not defined
```

```
In [8]: try:

    print("Name is",name)

except NameError as ne:
    print("Exception occurred:",ne)
```

Exception occurred: name 'name' is not defined

In []:

ValueError

```
In [10]: n = int(input("Enter a number: "))  
  
print("Number:",n)
```

Enter a number: 10
Number: 10

```
In [11]: n = int(input("Enter a number: "))  
  
print("Number:",n)
```

Enter a number: ten

```
-----  
ValueError                                Traceback (most recent call last)  
Cell In[11], line 1  
----> 1 n = int(input("Enter a number: "))  
      3 print("Number:",n)  
  
ValueError: invalid literal for int() with base 10: 'ten'
```

```
In [12]: try:  
        n = int(input("Enter a number: "))  
  
        print("Number:",n)  
  
except ValueError as ve:  
    print("Exception occurred:",ve)
```

Enter a number: ten
Exception occurred: invalid literal for int() with base 10: 'ten'

In []:

TypeError

```
In [13]: inp_name = input("Enter your name: ")  
inp_age = int(input("Enter your age: "))  
  
name_age = inp_name+inp_age  
  
print(name_age)
```

Enter your name: Amit
Enter your age: 23

```
-----  
TypeError                                Traceback (most recent call last)  
Cell In[13], line 4  
      1 inp_name = input("Enter your name: ")  
      2 inp_age = int(input("Enter your age: "))  
----> 4 name_age = inp_name+inp_age  
      6 print(name_age)  
  
TypeError: can only concatenate str (not "int") to str
```

```
In [14]: try:  
        inp_name = input("Enter your name: ")  
        inp_age = int(input("Enter your age: "))  
  
        name_age = inp_name+inp_age  
  
        print(name_age)  
  
except TypeError as te:  
    print("Exception occurred:",te)  
  
Enter your name: Amit  
Enter your age: 23  
Exception occurred: can only concatenate str (not "int") to str
```

```
In [ ]:
```