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Day 11: Exception

1. Write a Python program to handle a ZeroDivisionError exception when dividing a number by zero.

```python
try:
    print("'''Division'''")
    num1 = int(input("Enter first number: "))   #take first number from user
    num2 = int(input("Enter second number :")) #take second number from user
    result = num1/num2   #result variable stores division of two numbers.
    print(f"The division is: {result}")   #if second number is zero then it
will throw ZeroDivisionError

except ZeroDivisionError:  #Except block to handle ZeroDivisionError
    print("''' Division by zero is not allowed'")
print("-------------------------------------------------------")
```

2. Write a Python program that prompts the user to input an integer and raises a ValueError exception if the input is not a valid integer.

```python
try:
    i = 18
    intx = int(input("Enter Your Age: "))
    if intx>=i:
        print(f"'''You are eligible for vote'''")
    else:
```

```python
        print("'''You are not eligible for vote'''")

except ValueError:    #Except block to handle ValueError
    print("You entered invalid value")
print("----------------------------------------------------------")
```

3. Write a Python program that opens a file and handles a FileNotFoundError exception if the file does not exist.

```python
# Trying to open a non-existent file in read mode
try:
    print("'''open a file'''")
    with open('x.txt', 'r') as file:  #trying to open a file which doesn't
exists
        content = file.read()

except FileNotFoundError: #Except block to handle FileNotFoundError
    print("|| The File you are searching for is not Available ||")
print("----------------------------------------------------------")
```

4. Write a Python program that prompts the user to input two numbers and raises a TypeError exception if the inputs are not numerical

```python
try:
    input1 = int(input("Enter integer value: ")) #takes input as integer
    input2 = input("Enter string value: ")  #takes input as string
    diffr = input1 - input2  #trying to subtract string with integer which
will throw a TypeError
```

```
        print(diffr)

except TypeError:  #Except block to handle TypeError
    print("'''You entered invalid value'''")
    print("Please try again..!!")
print("----------------------------------------------------------")
```

Output:

```
CONSOLE    PREVIEW

'''Division'''
Enter first number: 3
Enter sencond number :0
'''Division by zero is not allowed'''
----------------------------------------------------------
Enter Your Age: str
You entered invalid value
----------------------------------------------------------
'''open a file'''
|| The File you are searching for is not Available ||
----------------------------------------------------------
Enter integer value: 12
Enter string value: string
'''You entered invalid value'''
Please try again..!!
----------------------------------------------------------
>>> ▌
```