Problems practice Errors and Exceptions

January 24, 2022

1 Problem 1

Handle the exception thrown by the code below by using try and except blocks:

```
[2]: for i in ['a','b','c']:
         print(i**2)
```

```
---------------------------------------------------------------------------
TypeError                                 Traceback (most recent call last)
~\AppData\Local\Temp/ipykernel_7508/2353522992.py in <module>
      1 for i in ['a','b','c']:
----> 2     print(i**2)

TypeError: unsupported operand type(s) for ** or pow(): 'str' and 'int'
```

```
[3]: try:
         for i in ['a','b','c']:
             print(i**2)
     except TypeError:
         print('There is a type error')
```

```
There is a type error
```

2 Problem 2

Handle the exception thrown by the code below by using try and except blocks. Then use finally block to print "All Done"

```
[4]: x = 5
     y = 0

     print(x/y)
```

```
---------------------------------------------------------------------------
ZeroDivisionError                         Traceback (most recent call last)
~\AppData\Local\Temp/ipykernel_7508/281822576.py in <module>
      2 y = 0
```

```
        3
----> 4 print(x/y)

ZeroDivisionError: division by zero
```

```python
[5]: try:
         x = 5
         y = 0
         print(x/y)
     except ZeroDivisionError:
         print('There is a zero division error')
     finally:
         print('All Done')
```

```
There is a zero division error
All Done
```

3   Problem 3

Write a function that asks for an integer and prints the square of it. Use a while loop with a try,except,else blocks to account for incorrect inputs.

```python
[16]: def sq_int():
          while True:
              try:
                  num = int(input('Enter a number: '))
                  print(num ** 2)
              except TypeError:
                  print('There is a type error! Try again.')
              except ValueError:
                  print('There is a value error! Try again')
                  continue
              else:
                  print("It's a corrcet input")
                  break
```

```python
[17]: sq_int()
```

```
Enter a number:
There is a value error! Try again
Enter a number:
There is a value error! Try again
Enter a number: 10
100
It's a corrcet input
```

```python
[18]: sq_int()
```

```
Enter a number: a
There is a value error! Try again
Enter a number: c
There is a value error! Try again
Enter a number: 25
625
It's a corrcet input
```

[ ]: