Hi Dear fellows and professor Sanusi

Part1

try:  
 test=open("test.txt","w")  
 k=1+2  
 test.write(k)  
 test.close()  
except:  
 print("the contents we write in must be string type!")

>>the contents we write in must be string type!

The original error:

TypeError: write() argument must be str, not int

In this example we write an integer type variable into plain text file which is illegal.

Part 2

**“Three kinds of errors can occur in a program: syntax errors, runtime errors, and semantic errors.”** Downey, A. (2015). Tuples. *Think Python: How to think like a Computer Scientist.* (pp. 13, 2.8 Debugging).Green Tea Press.

Syntax error is the easiest one, we can follow the error message to eliminate.

As for runtime error (also called exceptions error), we could use <try: except:> in each blocks

Example:

try:  
 #file operate block 1  
except:  
 print("error 1")  
try:  
 #file operate block 2  
except:  
 print("error 2")  
try:  
 #file operate block 3  
except:  
 print("error 3")

From each block error code message, it is easier for us to find out error.

The hardiest error is semantic error (so called logic error), we can only reorganize the thought, I can’t find efficient way solution.

Downey, A. (2015). Tuples. *Think Python: How to think like a Computer Scientist.* (pp. 137-145).Green Tea Press.