## Instructions

Using the purchase approval example as a reference - implement a file parsing chain. The chain should handle text, JSON, CSV and XML files.

* There is no need to implement the parsing logic simply print a message stating which parser would have parsed the file.
  + Each ‘Parser needs to implement the IParser interface below

public interface IParser

{

void Parse(string fileName);

void SetSuccessor(IParser nextParser);

}

* Use test to drive your implementation
  + To capture output use the two lines below before executing your test. Then assert that the ‘fakeoutput’ contains the expected string.
    - E.g. If the JSON parser would have been used then write ‘File Parsed with JSON Parser’

StringBuilder fakeoutput = new StringBuilder();

Console.SetOut(new StringWriter(fakeoutput));

* Check the file name’s extension to know if the parser could have handled it.
  + E.g. The TextParser checks of an extension of .txt to know it can handle this file.
* If a parser cannot handle the file call it calls its successor until the end of the chain is reached.
* If the end of the chain is reached and no parser could handle the file type print ‘Error: unable to locate a file parser for the [fileName]’