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#!/usr/bin/env python3
import sys
import os
import re

def error_search(log_file):
    error = input("What is the error? ")
    returned_errors = []
    with open(log_file, mode='r', encoding='UTF-8') as file:
        for log in file.readlines():
            error_patterns = ["error"]
            for i in range(len(error.split(' '))):
                error_patterns.append(r"{}".format(error.split(' ')[i].lower()))
            if all(re.search(error_pattern, log.lower()) for error_pattern in error_patterns):
                returned_errors.append(log)
    file.close()
    return returned_errors

def file_output(returned_errors):
    with open(os.path.expanduser('~') + '/data/errors_found.log', 'w') as file:
        for error in returned_errors:
            file.write(error)
        file.close()
```

```
if __name__ == "__main__":  
    log_file = sys.argv[1]  
    returned_errors = error_search(log_file)  
    file_output(returned_errors)  
    sys.exit(0)
```