

```
1  import os
2  import sys
3
4  def extract_alias_value_pairs(lines):
5      alias_value_pairs = []
6      alias = None
7      contract = None
8
9      for line in lines:
10         line = line.replace('""', '')
11         parts = line.split(':')
12         if 'alias' in parts[0] and len(parts) > 1:
13             alias = parts[1].strip().strip(', ')
14         elif 'value' in parts[0] and alias and len(parts) > 1:
15             value = parts[1].strip().strip(', ')
16             alias_value_pairs.append((alias, value, contract))
17             alias = None
18         elif 'contract' in parts[0] and len(parts) > 1:
19             contract = parts[1].strip().strip(', ')
20
21     return alias_value_pairs
22
23 def print_error(message):
24     print(f"\033[91m{message}\033[0m")
25
26 folder_path = "projects/project4/TestFiles"
27 file_list = os.listdir(folder_path)
28
29 error_found = False
30
31 for file_name in file_list:
32     file_path = os.path.join(folder_path, file_name)
33
34     if os.path.isfile(file_path):
35         with open(file_path, 'r') as file:
36             lines = file.readlines()
37
38             alias_value_pairs = extract_alias_value_pairs(lines)
39
40             if alias_value_pairs:
41                 print(f"\n- - - - Alias and Value in {file_name}: - - - -")
42
43                 for alias, value, contract in alias_value_pairs:
44                     print(f'alias: {alias} - value: {value} - contract: {contract} - ', end=' ')
45
46                     if contract == 'CurrentObjectBindContract':
47                         if alias == 'node':
48                             print("alias and value are correct (:")
49                         else:
50                             print_error(">>> Error: alias should be 'node' <<<")
51                             error_found = True
52
53                     elif contract == 'NodeBindContract':
54                         if alias == 'node':
55                             print("alias and value are correct (:")
56                         else:
57                             print_error(">>> Error: alias should be 'node' <<<")
58                             error_found = True
59
60                     elif contract == 'ManagerBindContract':
61                         if alias == 'manager':
62                             print("alias and value are correct (:")
63                         else:
64                             print_error(">>> Error: alias should be 'manager' <<<")
65                             error_found = True
66
67                     elif contract == 'LoggerBindContract':
68                         if alias == 'logger':
69                             print("alias and value are correct (:")
70                         else:
71                             print_error(">>> Error: alias should be 'logger' <<<")
72                             error_found = True
73
74                     elif contract == 'WebUiContextBind':
75                         if alias == 'webUI':
76                             print("alias and value are correct (:")
77                         else:
78                             print_error(">>> Error: alias should be 'webUI' <<<")
79                             error_found = True
80
81                     elif contract == 'CurrentWorkflowBindContract':
82                         if alias == 'workflow':
83                             print("alias and value are correct (:")
84                         else:
85                             print_error(">>> Error: alias should be 'workflow' <<<")
86                             error_found = True
87
88                     elif contract == 'BusinessFunctionBindContract':
89                         if alias in value:
90                             print("alias and value are correct (:")
91                         else:
92                             print_error(">>> Error: alias and value are not the same <<<")
93                             error_found = True
94
95                     else:
96                         if alias == value:
97                             print("alias and value are correct (:")
98                         else:
99                             print_error(">>> Error: alias and value are not the same <<<")
100                             error_found = True
101
102 if error_found:
103     sys.exit(1)
104
105 print("\nCheck complete.")
```