```
def test_mfa_email_code_fetched_via_imap(monkeypatch):
  Ensure handle email by imap extracts an MFA code from a mocked IMAP email correctly.
  from signIn import handle_email_by_imap
  mfa_token_input = type('FakeInput', (), {'clear': lambda self: None, 'send_keys': lambda self, code: setattr(self, 'sent_code', code', code')
  mfa_token_button = type('FakeButton', (), {'click': lambda self: setattr(self, 'clicked', True)})()
  state = \{\}
  mfa token input.send keys = lambda code: state.update({'code': code})
  mfa_token_button.click = lambda: state.update({'clicked': True})
  # Patch get_email_code to return a fixed code
  monkeypatch.setattr('signIn.get_email_code', lambda *a, **kw: '123456')
  handle email by imap(
    mfa_token_input,
    mfa_token_button,
    None,
     'user@example.com', 'pass', 'imap.example.com', 'INBOX'
  assert state['code'] == '123456'
  assert state['clicked']
---Extra Details---
Filename: test mfa email code fetched via imap.py
Description: Verifies that the code path for handling an IMAP-based email MFA retrieves, fills, and submits the 6-digit code.
Score: 96%
Alignment: 93%
```

Validation Notes: Mocks IMAP fetch method and button/input. Tests glue logic for email MFA scenario.