

```
#!/usr/bin/env python3
```

```
import unittest
from emails import find_email
```

```
class EmailsTest(unittest.TestCase):
    def test_basic(self):
        testcase = [None, "Bree", "Campbell"]
        expected = "breere@abc.edu"
        self.assertEqual(find_email(testcase), expected)

    def test_one_name(self):
        testcase = [None, "John"]
        expected = "Missing parameters"
        self.assertEqual(find_email(testcase), expected)

    def test_two_name(self):
        testcase = [None, "Roy", "Cooper"]
        expected = "No email address found"
        self.assertEqual(find_email(testcase), expected)

if __name__ == '__main__':
    unittest.main()
```

```
#!/usr/bin/env python3
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```
import csv
import sys
```

```
def populate_dictionary(filename):
    """Populate a dictionary with name/email pairs for easy lookup."""
    email_dict = {}
    with open(filename) as csvfile:
        lines = csv.reader(csvfile, delimiter = ',')
        for row in lines:
            name = str(row[0].lower())
            email_dict[name] = row[1]
    return email_dict
```

```
def find_email(argv):
    """ Return an email address based on the username given."""
    # Create the username based on the command line input.
    try:
        fullname = str(argv[1] + " " + argv[2])
        # Preprocess the data
        email_dict = populate_dictionary('/home/{username}
    }/data/user_emails.csv')
```

```
    # If email exists, print it
    if email_dict.get(fullname.lower()):
        return email_dict.get(fullname.lower())
    else:
        return "No email address found"
except IndexError:
    return "Missing parameters"
```

```
def main():
    print(find_email(sys.argv))
```

```
if __name__ == "__main__":
    main()
```