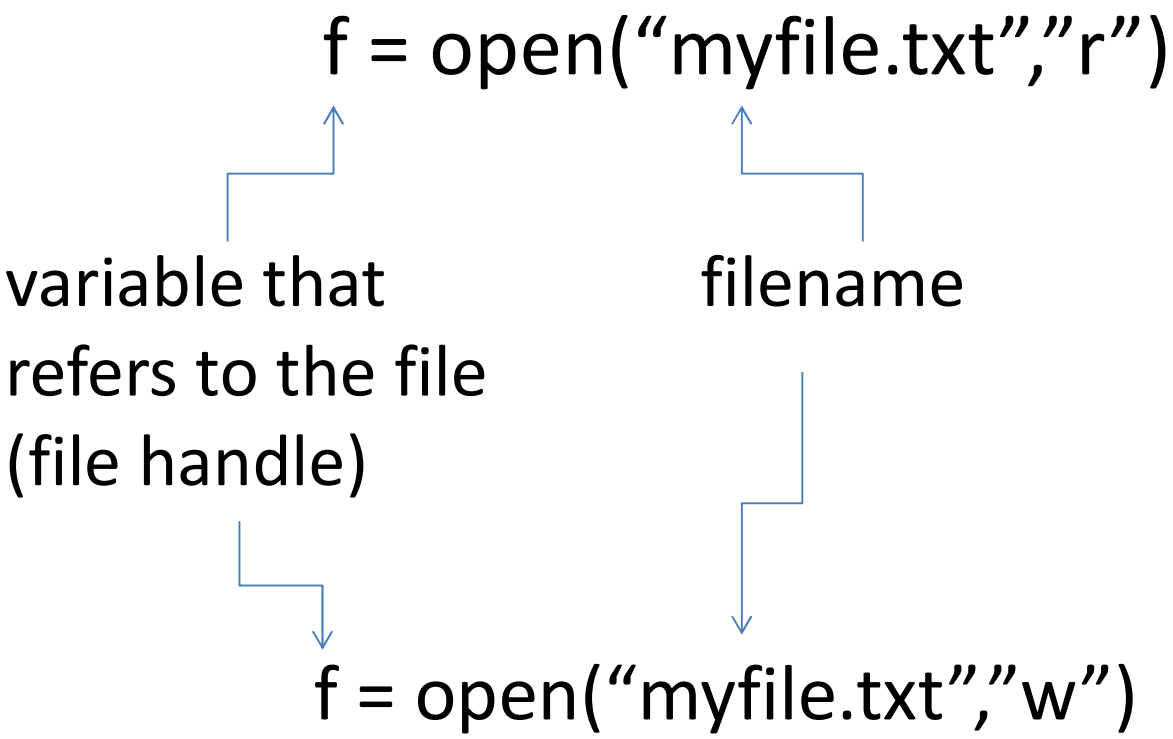
Addendum to Module 10: Tracing File Operations

Topics:

- Tracing File input
- Tracing File output

Opening a File



Reading a File

my_input_file.txt

next line to execute

```
lines = []
next_str = f.readline()
while next_str != "":
    lines.append(next_str)
    next_str = f.readline()
```

Reading a File

my_input_file.txt

lines = []

next line to execute

```
lines = []
next_str = f.readline()
while next_str != "":
    lines.append(next_str)
    next_str = f.readline()
```

Reading a File

my_input_file.txt

next_str = “John Phillips\n”

lines = []

```
lines = []
next_str = f.readline()
while next_str != "":
    lines.append(next_str)
    next_str = f.readline()
```

next line to execute

Reading a File

my_input_file.txt

```
John   Phillips
Mary Beukeboom
Eunsuk Kang
```

next_str = “John   Phillips\n”

lines = []

```
lines = []
next_str = f.readline()
while next_str != "":
    lines.append(next_str)
    next_str = f.readline()
```

next line to execute

Reading a File

my_input_file.txt

next_str = “John Phillips\n”

lines = [“John Phillips\n”]

```
lines = []
next_str = f.readline()
while next_str != "":
    lines.append(next_str)
    next_str = f.readline()
```

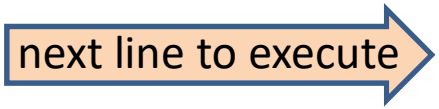
next line to execute

Reading a File

my_input_file.txt

next_str = “Mary Beukeboom\n”

lines = [“John Phillips\n”]




```
lines = []
next_str = f.readline()
while next_str != "":
    lines.append(next_str)
    next_str = f.readline()
```

Reading a File

my_input_file.txt

next_str = “Mary Beukeboom\n”

lines = [“John Phillips\n”]

```
lines = []
next_str = f.readline()
while next_str != "":
    lines.append(next_str)
    next_str = f.readline()
```

next line to execute

Reading a File

my_input_file.txt

next_str = “Mary Beukeboom\n”
lines = [“John Phillips\n”,
“Mary Beukeboom\n”]

```
lines = []
next_str = f.readline()
while next_str != "":
    lines.append(next_str)
    next_str = f.readline()
```

next line to execute

Reading a File

my_input_file.txt

```
John   Phillips
Mary Beukeboom
Eunsuk Kang
```

next_str = “Eunsuk Kang\n”
lines = [“John   Phillips\n”,
“Mary Beukeboom\n”]

```
lines = []
next_str = f.readline()
while next_str != "":
    lines.append(next_str)
    next_str = f.readline()
```

next line to execute

Reading a File

my_input_file.txt

```
John   Phillips
Mary Beukeboom
Eunsuk Kang
```

next_str = “Eunsuk Kang\n”
lines = [“John   Phillips\n”,
“Mary Beukeboom\n”]

```
lines = []
next_str = f.readline()
while next_str != "":
  lines.append(next_str)
  next_str = f.readline()
```

next line to execute

Reading a File

my_input_file.txt

```
John   Phillips
Mary Beukeboom
Eunsuk Kang
```

next_str = “Eunsuk Kang\n”
lines = [“John   Phillips\n”,
“Mary Beukeboom\n”,
“Eunsuk Kang\n”]

```
lines = []
next_str = f.readline()
while next_str != "":
  lines.append(next_str)
  next_str = f.readline()
```

next line to execute

Reading a File

my_input_file.txt

```
John   Phillips
Mary Beukeboom
Eunsuk Kang
```

next_str = “”

lines = [“John   Phillips\n”,
“Mary Beukeboom\n”,
“Eunsuk Kang\n”]

```
lines = []
next_str = f.readline()
while next_str != "":
    lines.append(next_str)
    next_str = f.readline()
```

next line to execute

Reading a File

my_input_file.txt

```
John   Phillips
Mary Beukeboom
Eunsuk Kang
```

next_str = “”

lines = [“John   Phillips\n”,
“Mary Beukeboom\n”,
“Eunsuk Kang\n”]

```
lines = []
next_str = f.readline()
while next_str != "":
  lines.append(next_str)
  next_str = f.readline()
```

next line to execute

Writing a File

my_output_file.txt

```
names =
    [["John", "Phillips"],
     ["Mary", "Beukeboom"],
     ["Eunsuk","Kang"]]
```

next line to execute

```
for n in names:
        f.write(n[0])
        f.write(n[1])
        f.write("\n")
```

Writing a File

my_output_file.txt

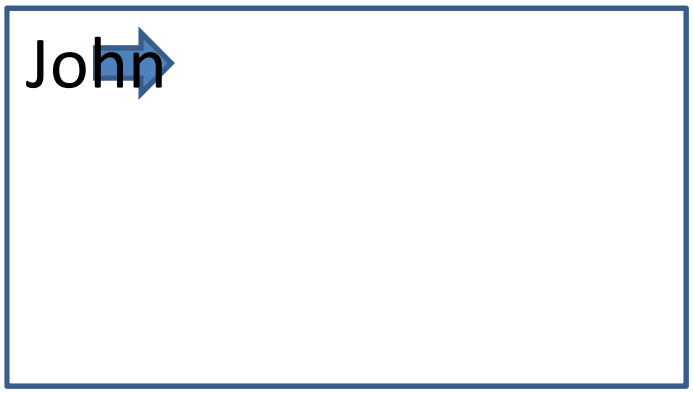
names =
[[“John”, “Phillips”],
[“Mary”, “Beukeboom”],
[“Eunsuk”,”Kang”]]
n = [“John”, “Phillips”]

```
for n in names:
    f.write(n[0])
    f.write(n[1])
    f.write("\n")
```

next line to execute

Writing a File

my_output_file.txt



names =
[[“John”, “Phillips”],
[“Mary”, “Beukeboom”],
[“Eunsuk”,”Kang”]]
n = [“John”, “Phillips”]

```
for n in names:
    f.write(n[0])
    f.write(n[1])
    f.write("\n")
```

next line to execute

Writing a File

my_output_file.txt

names =
[[“John”, “Phillips”],
[“Mary”, “Beukeboom”],
[“Eunsuk”,”Kang”]]
n = [“John”, “Phillips”]

```
for n in names:
    f.write(n[0])
    f.write(n[1])
    f.write("\n")
```

next line to execute

Writing a File

my_output_file.txt

names =
[[“John”, “Phillips”],
[“Mary”, “Beukeboom”],
[“Eunsuk”,”Kang”]]
n = [“John”, “Phillips”]

next line to execute

```
for n in names:
    f.write(n[0])
    f.write(n[1])
    f.write("\n")
```

Writing a File

my_output_file.txt

names =
[[“John”, “Phillips”],
[“Mary”, “Beukeboom”],
[“Eunsuk”,”Kang”]]
n = [“Mary”, “Beukeboom”]

```
for n in names:
    f.write(n[0])
    f.write(n[1])
    f.write("\n")
```

next line to execute

Writing a File

my_output_file.txt

JohnPhillips
Mary

names =
[[“John”, “Phillips”],
[“Mary”, “Beukeboom”],
[“Eunsuk”,”Kang”]]
n = [“Mary”, “Beukeboom”]

```
for n in names:
    f.write(n[0])
    f.write(n[1])
    f.write("\n")
```

next line to execute

Writing a File

my_output_file.txt

JohnPhillips
MaryBeukeboom

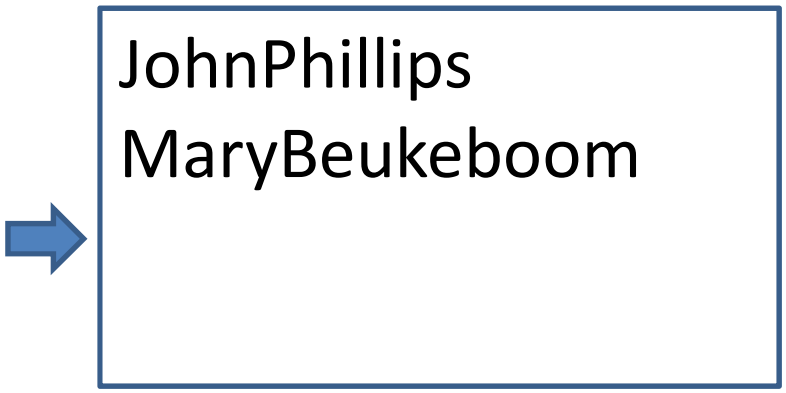
names =
[[“John”, “Phillips”],
[“Mary”, “Beukeboom”],
[“Eunsuk”,”Kang”]]
n = [“Mary”, “Beukeboom”]

```
for n in names:
    f.write(n[0])
    f.write(n[1])
    f.write("\n")
```

next line to execute

Writing a File

my_output_file.txt



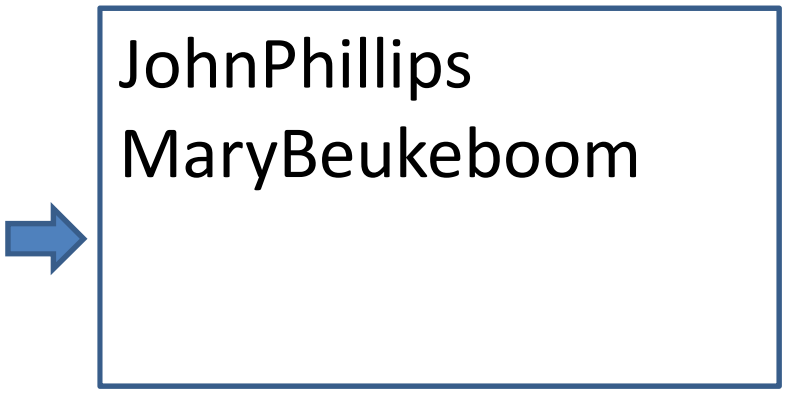
names =
[[“John”, “Phillips”],
[“Mary”, “Beukeboom”],
[“Eunsuk”,”Kang”]]
n = [“Mary”, “Beukeboom”]

next line to execute

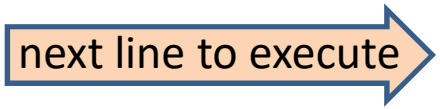
```
for n in names:
    f.write(n[0])
    f.write(n[1])
    f.write("\n")
```

Writing a File

my_output_file.txt



names =
[[“John”, “Phillips”],
[“Mary”, “Beukeboom”],
[“Eunsuk”,”Kang”]]
n = [“Eunsuk”, “Kang”]




```
for n in names:
    f.write(n[0])
    f.write(n[1])
    f.write("\n")
```

Writing a File

my_output_file.txt

JohnPhillips
MaryBeukeboom
Eunsuk

names =
[[“John”, “Phillips”],
[“Mary”, “Beukeboom”],
[“Eunsuk”,”Kang”]]
n = [“Eunsuk”, “Kang”]

```
for n in names:
    f.write(n[0])
    f.write(n[1])
    f.write("\n")
```

next line to execute

Writing a File

my_output_file.txt

JohnPhillips
MaryBeukeboom
EunsukKang

names =
[[“John”, “Phillips”],
[“Mary”, “Beukeboom”],
[“Eunsuk”,”Kang”]]
n = [“Eunsuk”, “Kang”]

```
for n in names:
    f.write(n[0])
    f.write(n[1])
    f.write("\n")
```

next line to execute

Writing a File

my_output_file.txt

```
JohnPhillips
MaryBeukeboom
EunsukKang
```

names =
[[“John”, “Phillips”],
[“Mary”, “Beukeboom”],
[“Eunsuk”,”Kang”]]
n = [“Eunsuk”, “Kang”]

```
for n in names:
    f.write(n[0])
    f.write(n[1])
    f.write("\n")
```

next line to execute