Addendum to Module 10: Tracing File Operations

Topics:

- Tracing File input
- Tracing File output

Opening a File

```
f = open("myfile.txt","r")
variable that
                       filename
refers to the file
(file handle)
          f = open("myfile.txt","w")
```

my_input_file.txt



```
next line to execute
lines = []

next_str = f.readline()

while next_str != "":

lines.append(next_str)

next_str = f.readline()
```

my_input_file.txt



John Phillips Mary Beukeboom Eunsuk Kang

lines = []

```
lines = []

next line to execute next_str = f.readline()

while next_str != "":

lines.append(next_str)

next_str = f.readline()
```

my_input_file.txt



```
next_str = "John Phillips\n"
lines = []
```

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()
```

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()
```

my_input_file.txt

```
next_str = "Mary Beukeboom\n"
lines = ["John Phillips\n"]
```

```
lines = []

next_str = f.readline()

next line to execute while next_str != "":

lines.append(next_str)

next_str = f.readline()
```

my_input_file.txt

```
next_str = "Mary Beukeboom\n"
lines = ["John Phillips\n"]
```

```
lines = []

next_str = f.readline()

while next_str != "":

next line to execute
  lines.append(next_str)

next_str = f.readline()
```

my_input_file.txt

John Phillips Mary Beukeboom Eunsuk Kang

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

my_input_file.txt



my_input_file.txt

John Phillips Mary Beukeboom Eunsuk Kang



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

my_input_file.txt

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

my_input_file.txt

my_input_file.txt



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

```
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")
```

```
my_output_file.txt
```

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

for n in names:

```
next line to execute
```

```
f.write(n[0])
f.write(n[1])
f.write("\n")
```

my_output_file.txt

```
John
```

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

```
for n in names:

f.write(n[0])

next line to execute

f.write(n[1])

f.write("\n")
```

my_output_file.txt

```
JohnPhillips
```

```
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")
```

```
JohnPhillips
```

```
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")
```

```
JohnPhillips
```

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

for n in names:

```
next line to execute
```

```
f.write(n[0])
f.write(n[1])
f.write("\n")
```

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")
```

my_output_file.txt

```
JohnPhillips
MaryBeukebo
```

```
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")
```

my_output_file.txt

JohnPhillips MaryBeukeboom

```
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")
```

my_output_file.txt

JohnPhillips MaryBeukeboom

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

for n in names:

```
next line to execute
```

```
f.write(n[0])
f.write(n[1])
```

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])

next line to execute

f.write(n[1])

f.write("\n")
```

my_output_file.txt

next line to execute

```
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")
```

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")
```