

## **Exercise 11.9.2**

```
# Exercise_11.9.2
```

```
thefile = open("studentdata.txt", "r")
```

```
for line in thefile:
```

```
    student = line.split()
```

```
    for num in range(len(student[1:])):
```

```
        student[num+1] = int(student[num+1])
```

```
    avr = sum(student[1:])/len(student[1:])
```

```
    print(student[0], "has an average of ", str(avr))
```

```
thefile.close()
```

```
-----
joe has an average of 23.0
bill has an average of 20.0
sue has an average of 16.166666666666668
grace has an average of 23.666666666666668
john has an average of 35.2
-----
```

## **Exercise 11.9.5**

```
# Exercise_11.9.5
```

```
import turtle
```

```
wn = turtle.Screen()
```

```
wn.bgcolor("lightgreen")
```

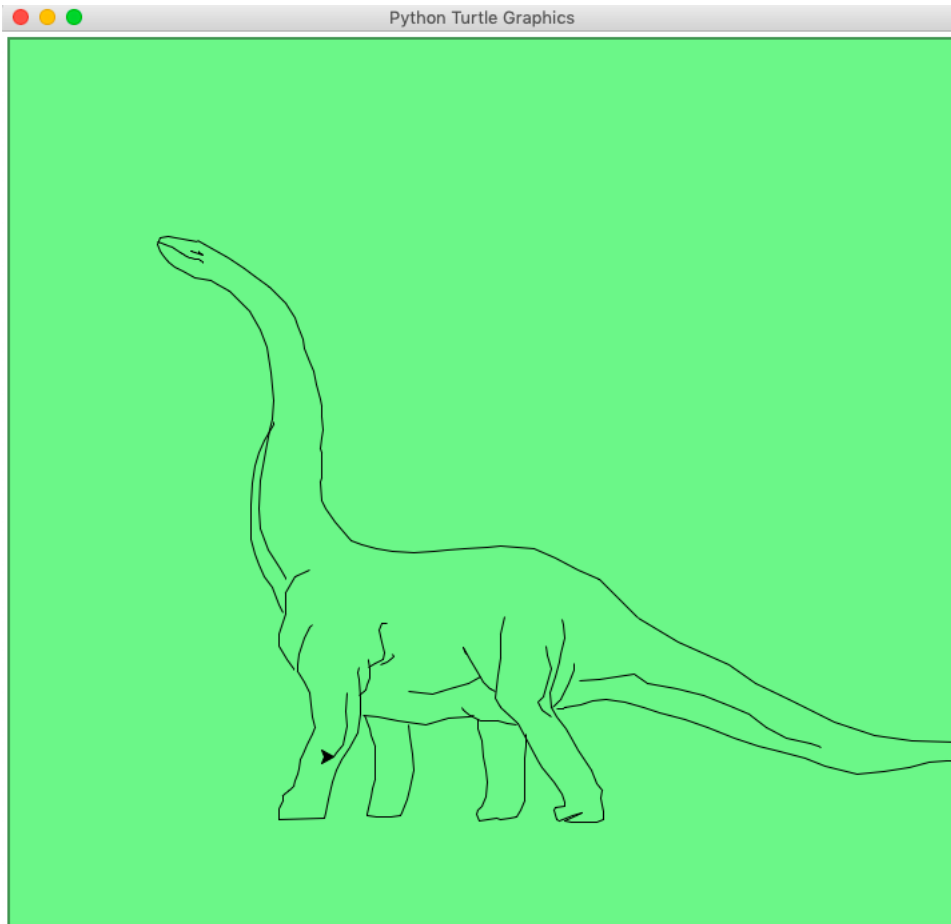
```
fred = turtle.Turtle()

def draw_file_turtle():
    thefile = open("mystery.txt", "r")

    for line in thefile:
        direction = line.split()
        if direction[0] == "UP":
            fred.up()
        elif direction[0] == "DOWN":
            fred.down()
        else:
            fred.goto(int(direction[0]),int(direction[1]))

    thefile.close()
    wn.exitonclick()

draw_file_turtle()
```



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### **Exercise 12.7.1**

# Exercise\_12.7.1

```
def count_num_char():
```

```
    sentence = input("Enter a sentence to see the number of each letter in it.")
```

```
    sentence = sentence.lower()
```

```
    alphabet = 'abcdefghijklmnopqrstuvwxyz'
```

```
    counter = {}
```

```

for letter in sentence:
    if letter in alphabet:
        if letter in counter:
            counter[letter] = counter[letter] + 1
        else:
            counter[letter] = 1

for keys in sorted(counter):
    print(keys, counter[keys])

```

count\_num\_char()

```

Enter a sentence to see the number of each letter in it. Hello World
d 1
e 1
h 1
l 3
o 2
r 1
w 1

```

---

### **Exercise 12.7.5**

# Exercise\_12.7.5

```

pirate_dict = {}
pirate_dict['sir'] = 'matey'
pirate_dict['hotel'] = 'fleabag inn'
pirate_dict['student'] = 'swabbie'
pirate_dict['boy'] = 'matey'
pirate_dict['madam'] = 'proud beauty'

```

```
pirate_dict['professor'] = 'foul blaggart'
pirate_dict['restaurant'] = 'galley'
pirate_dict['your'] = 'yer'
pirate_dict['excuse'] = 'arr'
pirate_dict['students'] = 'swabbies'
pirate_dict['are'] = 'be'
pirate_dict['lawyer'] = 'foul blaggart'
pirate_dict['the'] = "th'"
pirate_dict['restroom'] = 'head'
pirate_dict['my'] = 'me'
pirate_dict['hello'] = 'avast'
pirate_dict['is'] = 'be'
pirate_dict['man'] = 'matey'
```

```
def english_to_pirate():
```

```
    original = input('Enter a sentence in English to be translated to Pirate.')
```

```
    new = []
```

```
    words = original.split()
```

```
    for i in words:
```

```
        if i in pirate_dict:
```

```
            new.append(pirate_dict[i])
```

```
        else:
```

```
            new.append(i)
```

```
    print(" ".join(new))
```

```
english_to_pirate()
```

Enter a sentence in English to be translated to Pirate.  
hello i am a student  
avast i am a swabbie