Exercise 2.13.8

```
# Exercise_2.13.8


pi = 3.14

radius_str = input("What is the radius of your circle?")

radius_int = int(radius_str)


Area_int = pi * radius_int **2

Area_str = str(Area_int)


print("The area of your circle is about " + Area_str)
```

```
The area of your circle is about 78.5
```

(When the radius is 5.)

```
The area of your circle is about 314.0
```

(When the radius is 10.)

Exercise 2.13.12

```
# Exercise_2.13.12


f_degree_str = input("What is the fahrenheit degree you want to convert to celsius?")

f_degree_int = int(f_degree_str)
```

```
celsius = (f_degree_int - 32) * (5/9)
print(celsius)
```

```
-10.55555555555556
```

(Fahrenheit input is 13.)

```
10.0
```

(Fahrenheit input is 50.)

```
232.7777777777778
```

(Fahrenheit input is 451.)

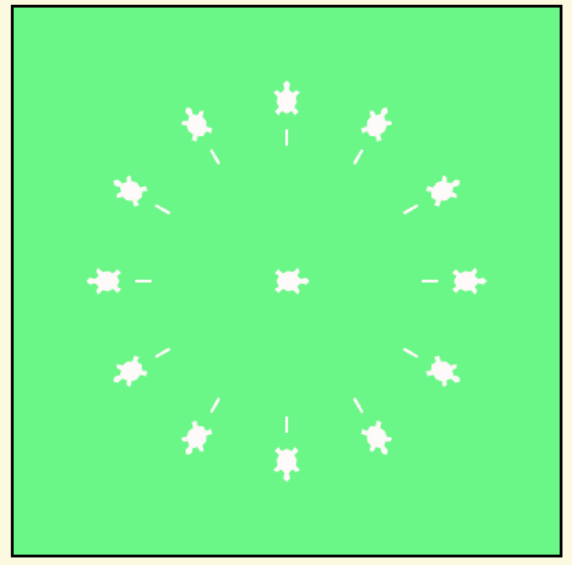
Exercise 4.11.10

```
# Exercise_4.11.10

import turtle
wn = turtle.Screen()
wn.bgcolor('lightgreen')
zoomy = turtle.Turtle()
zoomy.color('Snow')
zoomy.shape('turtle')
zoomy.pensize(2)

for times in range(12):
    zoomy.right(30)
    zoomy.up()
    zoomy.forward(100)
```

```
zoomy.down()
zoomy.forward(10)
zoomy.up()
zoomy.forward(20)
zoomy.stamp()
zoomy.forward(-130)
```



Exercise 4.11.4

```
# Exercise_4.11.4

random = [12, 10, 32, 3, 66, 17, 42, 99, 20]

# part a of exercise
for i in random:
    print(i)
```

```
# part b of exercise

for i in random:

    print(i, i**2)
```

```
12
10
32
3
66
17
42
99
20
12 144
10 100
32 1024
3 9
66 4356
17 289
42 1764
99 9801
20 400
```