

CISC 101 Week 2

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Recap

Creating a variable...

```
a = 20
```

```
b = 7.6
```

```
x = 3 + 4j
```

```
studentName = "Adam"
```

```
studentList = ["Adam", "John", "Sarah"]
```

Recap

Printing to screen...

```
print("Hello")
```

```
print(5 + 6)
```

```
a = 5
```

```
print(a)
```

```
print("The value of 'a' is " + str(a))
```

What's wrong with this code?

```
# calculate area of rectangle with sides...
```

```
a = 5.6
```

```
b = 7.2
```

```
area = a * b
```

```
print("The area of this rectangle is " + area)
```

What's wrong with this code?

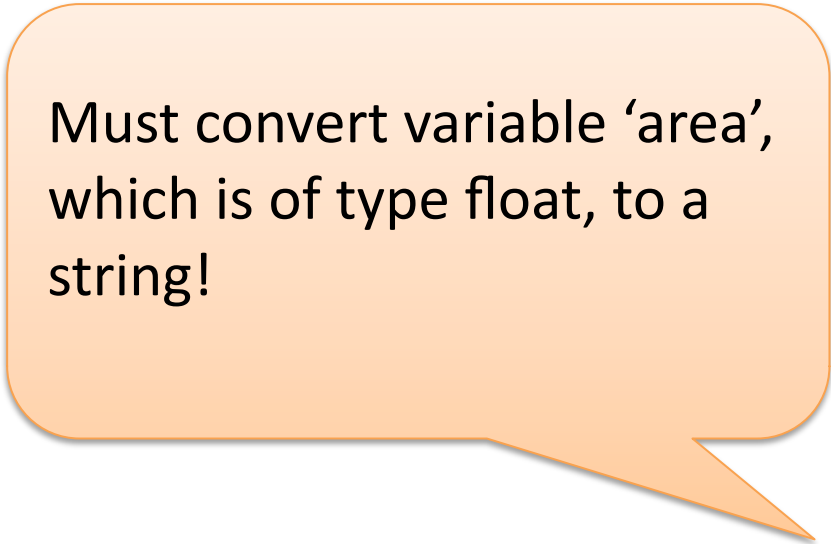
```
# calculate area of rectangle with sides...
```

```
a = 5.6
```

```
b = 7.2
```

```
area = a * b
```

```
print("The area of this rectangle is " + str(area))
```



Must convert variable 'area', which is of type float, to a string!

Functions

Without functions

```
# for a square with length 5  
print("The area of the square is " + str(5**2))
```

```
#for a square with length 7  
print("The area of the square is " + str(7**2))
```

```
#for a square with length 9  
print("The area of the square is " + str(9**2))
```

Functions

With functions

```
def squareArea(x):  
    # for a square with length x  
    print("The area of the square is " + str(x**2))
```

```
squareArea(5)
```

```
squareArea(7)
```

```
squareArea(9)
```