Lecture 3: Numbers, Strings, and Variables
Numbers and their operations

```python
>>> x = int(45)
>>> y = 9
>>> x / y
5.0
>>> x // y
5
>>> z = float(9)
>>> x / z
5.0
>>> z * x
405.0
>>> y * x
405
>>> u = 9.0
>>> x / u
5.0
>>> y**2
81
>>> y % 3
0
>>> y % 2
1
>>> y % 5
4
```
Strings

>>> x = "Brent’s sister’s husband’s brother—in—law is a great guy."

"Brent’s sister’s husband’s brother—in—law is a great guy."

>>> y = 'Brent says, "Good thing my brother—in—law is an only child."'

'Brent says, "Good thing my brother—in—law is an only child."'

>>> z = x + " " + y

'Brent’s sister’s husband’s brother—in—law is a great guy. Brent says, "Good thing my brother—in—law is an only child."'

>>> print(x)

'Brent’s sister’s husband’s brother—in—law is a great guy.

>>> print(y)

'Brent says, "Good thing my brother—in—law is an only child."

>>> print(z)

'Brent’s sister’s husband’s brother—in—law is a great guy. Brent says, "Good thing my brother—in—law is an only child."

>>> a = "a newline\ncharacter"

"a newline\ncharacter"

>>> print(a)

a newline
character

>>> a = r'a newline\ncharacter'

'a newline\ncharacter'

>>> print(a)

a newline\ncharacter

>>> print(a)

a newline\ncharacter
Question: what is the string assigned to \texttt{x}?

```python
>>> print(x)
She said, "Brent’s favorite character is \n."
He said, "I know."
```