CS50 Lecture 6: Python

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Intro

```
print("hello, world")
can get strings
answer = get_string("What's your name? ")
print("hello, " + answer)
from cs50 import get_string
answer = get_string("What's your name? ")
print("hello, " + answer)
F strings
print(f"hello, {anser})
if/else:
if x < y:
   print("x is less than y")
elif x > y:
    print("x is greater than y")
    print("x is equal to y")
boolean expression:
while True:
    print("hellow, world")
we can write a loop:
i=0
while i < 3:
    print("hello, world")
    i += 1
can write for loop:
for i in [0, 1, 2]: // this is like a list
    print("cough")
```

```
range(3) gives [0, 1, 2]
range(0, 101, 2) goes from 0 to 100 in increments of 2.
we can print an integet with print i.
```

data types

- bool: True, False
- float
- int
- str

More complex types include

- $\bullet\,$ range: sequence of numbers
- list: sequencd of mutable values: can grow or shrink
- tuple: tuple: collection of ordered values
- dict: key value pairs
- $\bullet\,$ set: unique values with no duplicates