Python Class 20

GUI

Review

```
1 list = ["home","time","improvement","dark","far"]
2
3 ____x __list:
4    print(x)
```

Review 2

```
7 for x in range(1,50):
8 ___ x/2 - int(x/2) == 0__
9 print(x)
10
```

Review 3

```
class Movie:
13
      def init (self, ti, di, ca, ge, rt):
          self.title = ti #映画名
14
          self.director = di #ディレクター
15
          self.cast = ca #キャスト
16
          self.genre = ge #ジャンル
17
          self.runtime = rt #映画の長さ
18
19
20
  #make two movies
```

Listbox

- lb = tk.Listbox(parent, option....)
- listvariable (StringVar, 'a b c')

Checkbutton

- check =tk.Checkbutton(parent, option...)
- command
- indicatoron (0,1)
- variable (IntVar $\rightarrow 0,1$)

Control Variables

- tk.DoubleVar()
- tk.IntVar()
- tk.StringVar()

- Float
- Integer
- String
- These get linked and will change automatically
- Button, Entry, and Label can have a textvariable

Control Variables, 2

- v = StringVar()
- v.set("Hello")
- \bullet a = v.get()

- Creates a string variable
- Sets the value to Hello
- Now, a has the value Hello

Let's go back to our recipe code.

• Let's make a program that allows us to save a recipe, enter ingredients, and add instructions