## **Functional programming aspects**

• (mostly) side effect free functions

```
def update_progress(self, letter, indexes):
    for index in indexes:
        self.game_progress[index] = letter

def updating_scores(self, user_name, wrong_guess):
    x = lambda wrong, score: score - (10*wrong)
    if wrong_guess != 0:
        self.total_score = x(wrong_guess, self.total_score)

    text_file = open(self.file_path, "a")
    text_file.write("\n{0}\".format(user_name))
    text_file.write(" {0}\".format(str(self.total_score)))
    text_file.close()
```

the use of higher-order functions

use anonymous functions

```
def updating_scores(self, user_name, wrong_guess):
    x = lambda wrong, score: score - (10*wrong)
    if wrong_guess != 0:
        self.total_score = x(wrong_guess, self.total_score)

text_file = open(self.file_path, "a")
    text_file.write("\n{0}".format(user_name))
    text_file.write(" {0} ".format(str(self.total_score)))
    text_file.close()
```