Assignment 2

1.potentiallyhackablesandbox.py

This sandbox disallows certain “bad” strings in simple.file using string blacklist.It also modifies the builtin namespace and execs the code.

2.a-sandbox.py

This sandbox uses whitelisting.It only executes program ‘a’ if it contains the allowed characters.When program ‘a’ is executed,the sandbox will print whatever is in variable A.

3.easytocode.py

This sandbox also uses a blacklist to forbid the file silly.input to contain certain strings.It then modifies the builtin namespace and executes the file data(data read from silly.input)

4.
https://github.com/fjm266/appSec1

Sandbox code-sandbox.py

In this sandbox,data to be executed is read using the following criteria:

If number of arguments on the command line is 2 or more,data from the second argument is read and executed

If number of arguments is less than 2,data from code.in is rad and executed

The builtin namespace has a mapping of ‘data’:data.This data is read using the following criteria

If number of arguments on the command line is greater than 2,read data from the third argument.

If number of arguments on the command line is 2 or less,read data from data.in