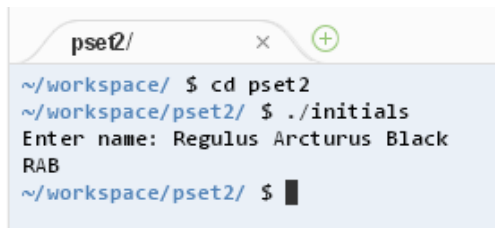# Problem Set 2: Crypto
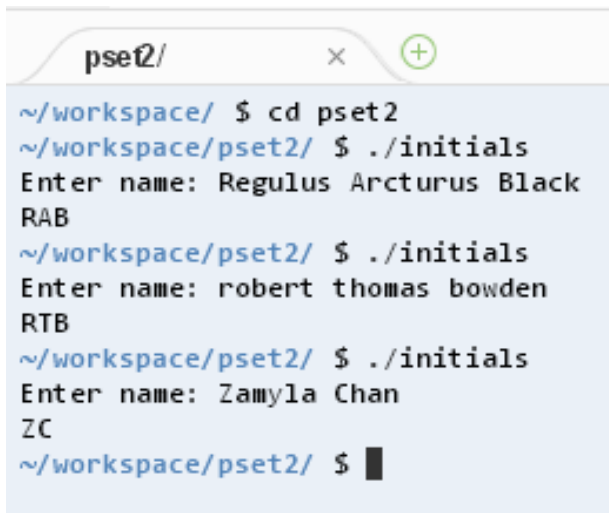
What to Do

1. Implement either of:

   o **Initials**, less comfortable

   ```
   pset2/                    ×    ⊕

   ~/workspace/ $ cd pset2
   ~/workspace/pset2/ $ ./initials
   Enter name: Regulus Arcturus Black
   RAB
   ~/workspace/pset2/ $ ▮
   ```

   o **Initials**, more comfortable

   ```
   pset2/                    ×    ⊕

   ~/workspace/ $ cd pset2
   ~/workspace/pset2/ $ ./initials
   Enter name: Regulus Arcturus Black
   RAB
   ~/workspace/pset2/ $ ./initials
   Enter name: robert thomas bowden
   RTB
   ~/workspace/pset2/ $ ./initials
   Enter name: Zamyla Chan
   ZC
   ~/workspace/pset2/ $ ▮
   ```
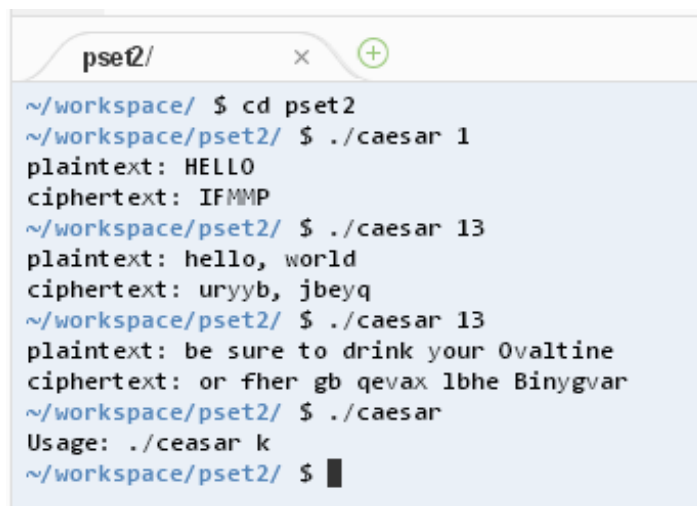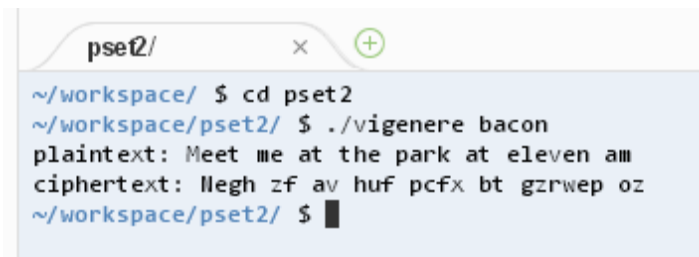
2. Implement any two (2) of:

   o **Caesar**, less comfortable

   ```
   pset2/                    ×    ⊕

   ~/workspace/ $ cd pset2
   ~/workspace/pset2/ $ ./caesar 1
   plaintext: HELLO
   ciphertext: IFMMP
   ~/workspace/pset2/ $ ./caesar 13
   plaintext: hello, world
   ciphertext: uryyb, jbeyq
   ~/workspace/pset2/ $ ./caesar 13
   plaintext: be sure to drink your Ovaltine
   ciphertext: or fher gb qevax lbhe Binygvar
   ~/workspace/pset2/ $ ./caesar
   Usage: ./ceasar k
   ~/workspace/pset2/ $ ▮
   ```

- o [Vigenere](#), less comfortable

```
pset2/                    ×    ⊕

~/workspace/ $ cd pset2
~/workspace/pset2/ $ ./vigenere bacon
plaintext: Meet me at the park at eleven am
ciphertext: Negh zf av huf pcfx bt gzrwep oz
~/workspace/pset2/ $ ▮
```