

Problem Set 6

Mario

1. Implement either of the below exactly as specified but in Python:
 - [Mario](#), less comfortable, in a file called `mario.py` in `pset6/`.
 - [Mario](#), more comfortable, in a file called `mario.py` in `pset6/`.

```
pset6/ x (+)
~/workspace/pset6/ $ python mario.py
give me an integer < 23: 5
  ##
 ###
####
#####
#####
~/workspace/pset6/ $
```

```
pset6/ x (+)
~/workspace/pset6/ $ python mario.py
give me an integer < 23: -7
give me an integer < 23:
five
Retry: 8
  ##
 ###
####
#####
#####
#####
#####
#####
#####
~/workspace/pset6/ $
```

[illegible]

2. Implement either of the below exactly as specified but in Python:

Greedy

- Greedy, less comfortable, in a file called `greedy.py` in `pset6/`.

```
pset6/ x (+)
~/workspace/pset6/ $ python greedy.py
0 hai! How much change is owed?
0.41
change: 4
~/workspace/pset6/ $ python greedy.py
0 hai! How much change is owed?
0.99
change: 9
~/workspace/pset6/ $
```

```
pset6/ × (+)
~/workspace/pset6/ $ python greedy.py
0 hai! How much change is owed?
-0.41
0 hai! How much change is owed?
9
change: 36
~/workspace/pset6/ $
```

Credit

- [Credit](#), more comfortable, in a file called `credit.py` in `pset6/`.

```
pset6/ x (+)
~/workspace/pset6/ $ python credit.py
Please enter the card number: 378282246310005
AMEX
~/workspace/pset6/ $ python credit.py
Please enter the card number: 6176292929
INVALID
```

3. Implement any (one) of the below exactly as specified but in Python:

- [Caesar](#), less comfortable, in a file called `caesar.py` in `pset6/`.

```
pset6/ x (+)
~/workspace/pset6/ $ python caesar.py
Введіть числове значення аргумента
~/workspace/pset6/ $ python caesar.py 13
Введіть текст: HELLO
зашифрований текст: URYYB~/workspace/pset6/ $
```

```
pset6/ x (+)
~/workspace/pset6/ $ python caesar.py 13
Введіть текст: hello, world
зашифрований текст: uryyb, jbeyq~/workspace/pset6/ $ python caesar.py 13
Введіть текст: be sure to drink your Ovaltine
зашифрований текст: or fher gb qevax lbhe Binygvar~/workspace/pset6/ $
```