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CPS109 Assignment #2

09/19/18

1.

```
def bingo(name, money):
    print(name + " called bingo and won $"+str(money))
```

2.

```
def runner(num, mile, time):
    numStr = str(num)
    mileStr = str(num)
    print("Runner #"+numStr+" passed mile "+mileStr+" at time "+time)
```

3.

```
def invertPyramid(char):
    bigStr = ""
    x = 0
    while x < 6:
        y = x
        while y > 0:
            bigStr+=" "
            y=y-1
        z = 6
        while z > x:
            bigStr+=char
            z=z-1
        bigStr+="\r\n"
        x=x+1
    print bigStr
```

4.

```
def textSquare(char, num):
    print num*char
    for x in range(1, num-2):
        spaces = (num-2)*" "
        print(char+spaces+char)
    print num*char
```

5.

```
def justConsonants(str):
    bigStr = ""
    for letter in str:
    if not letter in "AEIOUYaeiouy":
        bigStr += letter
    print bigStr
```

6.

```
def justConsonants(str):
    bigStr = ""
    for letter in str:
        if not letter.lower() in "aeiouy":
            bigStr += letter
    print bigStr
```

7.

dup3 gives the correct output.

8.

```
def dup5(s) :
    target = ''
    for letter in s :
        dash = "-"
        target = letter + dash + target + dash + letter
    return target
```

9.

```
def separate(str):
    cStr = ""
    vStr = ""
    for letter in str:
    if not letter.lower() in "aeiouy":
        cStr += letter
    else:
        vStr += letter
    print("Vowels: "+vStr)
    print("Consonants: "+cStr)
```

10.

```
def buildCipher(key) :
    alpha1 = 'abcdefghijklmnopqrstuvwxyz'
    alpha2 = key
    for letter in alpha1 :
        if letter not in key :
        alpha2 = alpha2 + letter
    return alpha2
def encode2(string, alpha2) :
    alpha1 = 'abcdefghijklmnopqrstuvwxyz'
    secret = ''
    for letter in string :
        if letter.lower() in alpha1:
            i = alpha1.find(letter)
        secret = secret + alpha2[i]
    return secret
```