

Week 8

Tuesday, Feb 6th

Lesson: Understanding Code

Goals:

- To be able to read and understand Python scripts
- To think through logic and loops and predict the outcome

Example 1:

What does the following Python code do?

```
import random

n = random.randint(1, 99)
usersNumber = int(input("Enter an integer from 1 to 99: "))

while n != usersNumber:
    print("thinking...")
    if usersNumber < n:
        print("too low")
        usersNumber = int(input("Enter an integer from 1 to 99: "))
    elif usersNumber > n:
        print("too high")
        usersNumber = int(input("Enter an integer from 1 to 99: "))
print("correct!")
```

Example 2:

What does the following Python code do?

```
n=int(input("Enter number: "))
answer=0
while(n>0):
    x=n%10
    answer=answer*10+x
    n=n//10
print("Answer:", answer)
```

Example 3:

What does the following Python code do?

```
for i in range(1,101):
    if i%3 == 0:
        print("fizz")
    elif i%5 == 0:
        print("buzz")
    else:
        print(i)
```

Example 4:

What does this code do?

```
numbers = [0, 3, 1, 8, 5, 2, 9]

for number in numbers:
    i = 0
    answer = ""
    while i < number:
        answer += str(number)
        i += 1
    print(answer)
```