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Lesson 4 – Looping

1. Create a list that holds 5 data variables.

```
#U2L4 Looping

list = ['b', 'r', 'u', 'n', 'i']
print(list)
```
```
['b', 'r', 'u', 'n', 'i']
```

2. Print out those variables by using a for loop

```
#U2L4 Looping

list = ['b', 'r', 'u', 'n', 'i']
print(list)

for letters in list:
    print(letters)
```
```
['b', 'r', 'u', 'n', 'i']
b
r
u
n
i
```

3. Modify your for loop to add a message to your for loop.

```
#U2L4 Looping

list = ['b', 'r', 'u', 'n', 'i']
print(list)

for letters in list:
    print(letters + " is the next letter")
```
```
['b', 'r', 'u', 'n', 'i']
b is the next letter
r is the next letter
u is the next letter
n is the next letter
i is the next letter
```

4. Use a for loop to print even numbers from 1-20.

```
#U2L4 Looping

list1 = ['b', 'r', 'u', 'n', 'i']
print(list1)

for letters in list1:
  print(letters + " is the next letter")

numbers = (range(1, 21))

for even in numbers:
  if even % 2 == 0:
    print(even, end = " ")
```

```
['b', 'r', 'u', 'n', 'i']
b is the next letter
r is the next letter
u is the next letter
n is the next letter
i is the next letter
2 4 6 8 10 12 14 16 18 20
```

5. Sort your list in alphabetical order.

```
#U2L4 Looping

list1 = ['b', 'r', 'u', 'n', 'i']
print(list1)

for letters in list1:
  print(letters + " is the next letter")

numbers = (range(1, 21))

for even in numbers:
  if even % 2 == 0:
    print(even, end = " ")
print()

list1.sort()
print(list1)
```

```
['b', 'r', 'u', 'n', 'i']
b is the next letter
r is the next letter
u is the next letter
n is the next letter
i is the next letter
2 4 6 8 10 12 14 16 18 20
['b', 'i', 'n', 'r', 'u']
```

6. Print out the first three elements of your list.

```
list1 = ['b', 'r', 'u', 'n', 'i']
print(list1)
print(list1[:3])
```

```
['b', 'r', 'u', 'n', 'i']
['b', 'r', 'u']
```

7. Create a loop to print the last 2 elements of your list.

```
list1 = ['b', 'r', 'u', 'n', 'i']
print(list1)
print(list1[:3])

for elements in list1:
    print(elements)
print()

print(list1[-2:])
```

```
['b', 'r', 'u', 'n', 'i']
['b', 'r', 'u']
b
r
u
n
i

['n', 'i']
```

+ Code   + Text