Python

{ For Loops

Women Who Code   Violet Cullors

For Loop

Definition – iterates through a list of items sequentially.

- Simplest Loop - the number of iterations to execute is known

- Works with numbers

- Works with lists

- Works with strings (text)

For Loop

Syntax for iterator in sequence:

statement 1

statement N

FOR Loop examples

```
for x in range(4):          number type
    print(x)
    print(x**2)



for letter in "Python":     string type
    print (letter)
```

FOR loop – list type

```
fruits = ['banana', 'apple', 'mango']

for fruit in fruits:
    print (fruit)
    for char in fruit:
        print(char)
```

FOR Loop - Try This

```
import random

roll_time = input('Enter how many times to roll dice > ')
x_times   = int(roll_time)

print ("Die1 Die2")
print ("------------")

for x in range(x_times):
    y = random.randint(1,6)
    z = random.randint(1,6)
    print (y , z)

print ("Dice rolled " + roll_time + " times.")
print ("Script complete.")
```