

Python

Code Girls 2020-21





What we know and what we are going to focus on today.

We know

- Basic syntax
- Basic Data Structure

Today's Focus:

- Integrating our previous knowledge with a “For Loop”
 - Learn the syntax and range of application for a “For Loop”





Before we start loops:

The basis of coding and programming is ?

Logic!

One of the most important tools is the if, elif, else statements.

Comparison Operators

Operator	Meaning
==	Equal to
!=	Not equal to
>	Greater than
<	Less than
>=	Greater than or equal to
<=	Less than or equal to



Syntax of if/else

```
if ([statement]):
```

```
    [do stuff]
```

```
elif ([statement]):
```

```
    [do stuff]
```

```
else:
```

```
    [do stuff]
```

```
if ([statement]):
```

```
    [do stuff]
```

```
else:
```

```
    [do stuff]
```

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if ([statement]):
```

```
    [do stuff]
```

```
elif ([statement]):
```

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    [do stuff]
```

```
elif ([statement]):
```

```
    [do stuff]
```

```
else:
```

```
    [do stuff]
```



Hypothetical Situation

We know how to output “x”:

```
print("x")
```

But what if we wanted to print “x”... a bunch of times???

- If it is a few number of times, maybe we could repeat the command
- But that is a lot of work
- If only there was a better way



Introducing “FOR LOOPS”!

A “for loop” is used for iterating over a sequence.

Basic syntax:

```
for [variable name] in [define a range]:  
    [statement]
```



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Acknowledgments

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