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# *Python Assignment 7*

## *Python Basics:*

### *Loop (for & while)*

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Robotics Team - VRC 99909A Rising Phoenix

#### **Class Recap**

Loop is one of the most powerful features in computer programming. A loop in a computer program is an instruction (or a set of instructions) that repeats until a specified condition is reached. You can loop through thousands of iterations with a few lines of code.

[https://www.w3schools.com/python/python\\_while\\_loops.asp](https://www.w3schools.com/python/python_while_loops.asp)

[https://www.w3schools.com/python/python\\_for\\_loops.asp](https://www.w3schools.com/python/python_for_loops.asp)

- for loop - iterating over a sequence (list, tuple, dictionary, set, or string)
- while loop - repeating a set of statements as long as a condition is fulfilled (true)

#### **Assignment 1:**

(for loop) Include the following statement as the first line of code in your program to define a list of 6 integers:

```
aList = [11, 2, 23, 41, 5, 12]
```

Display any number in that list that is bigger than 20.

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## Assignment 2:

(while loop) Display numbers from 20 to 30.

## Assignment 3 - CodingBat:

### Warmup-2 > string\_bits

<https://codingbat.com/prob/p113152>

### Warmup-2 > string\_splosion

<https://codingbat.com/prob/p118366>