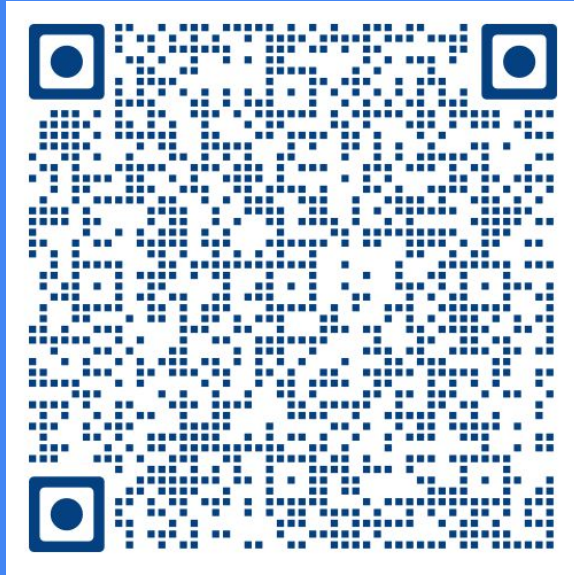


# Python Course

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# Loops and List Comprehensions



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# Loops

# while

As long as a condition is True, “while” executes a chunk of code.

SOME EXAMPLES

# Assignment:

Develop a program that prints from 1 to 100 except multiples of 4.

# while loop

- **“while” execution depends on a boolean.**
- **“break” stops iteration in while loops.**
- **“continue” prevents specific conditions.**
- **“else” is executed when while’s condition is false.**

# for

“for loop” iterates over a sequence.



SOME EXAMPLES

# Assignment:

Print a standard 52-card deck using for loop and two separate lists of ranks and suits.

# for loop

- **for's sequence can be a list, a tuple, a dictionary, a set, or a string.**
- **“break” stops iteration in for loops.**
- **“continue” prevents specific conditions.**
- **“else” is executed when for's condition is false.**

# for loop

- **“range( )” can be used alongside loops.**
- **“pass” can be used if you want to have a loop with no contents.**
- **Loops can be nested in each other.**

# List Comprehensions

```
odds = [n for n in range(1, 10, 2)]
```

You can define a list using for loop in python.

SOME EXAMPLES

# Assignment:

Using list comprehension, create a list including 1 to 100 except multiples of 6.



# Thanks!



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