# Python Data Persistance cheatsheet

## Access Modes

1. r: read-only
2. r+: both read and write
3. w: write-only - overwrites the file
4. w+: both read and write - overwrites the file
5. a: write-only - appends to the file
6. a+: both read and write - appends to the file

## Opening a file

open(file_name, *access_mode) opens a file

```
file = open("my_file.txt", "r")
```

## Reading a file

read() reads a files contents readlines() reads the contents as a list (each line is a string in the list)

```
file = open("hello.txt", "r")
contents = file.read()
print(contents)

file = open("people.txt", "r")
lines = file.readlines()
for line in line:
    print(line)
```

## Writing a file

write() writes to the file with no accessor mode, will write at the end of the file.

```
file = open('people.txt', 'w')
file.write('Susan')
```

## Closing a file

close()

```python
file = open('people.txt', 'w')
file.write('Susan\n')
file.close()
```

## Context Manager

with python keyword for creating a context manager

```python
items = ['apple', 'grapes', 'orange', 'banana']
with open('people.txt', 'w') as items_file:
    for item in items:
        items_file.write(item + '\n')
```