Zen

The code below creates a text file called `zen.txt`.

```
from this import s
from codecs import decode
with open('zen.txt', 'w') as f:
    f.write(decode(s, "rot-13"))
```

The standard approach to reading in files, as described in the Python Tutorial.

```
with open('zen.txt') as f:
    my_list = [line for line in f]
print(my_list[0])
```

```
## The Zen of Python, by Tim Peters
```

```
with open('zen.txt') as f:
    my_string = f.readline()
print(my_string.splitlines()[0])
```

```
## The Zen of Python, by Tim Peters
```

Define and use functions to read in text.

```
def read_list(file):
    with open(file) as f:
        return [line for line in f]
my_list = read_list('zen.txt')
print(my_list[0])
```

```
## The Zen of Python, by Tim Peters
```

```
def read_str(file):
    with open(file) as f:
        return f.read()
my_string = read_str('zen.txt')
print(my_string.splitlines()[0])
```

```
## The Zen of Python, by Tim Peters
```

Create a class to represent text files

```
class TextFile:
    count = 0
    def __init__(self, file):
        self.file = file
    def read(self):
        with open(self.file) as f:
            self.string = f.read()
        TextFile.count += 1
    def reset(self):
        del self.string
        TextFile.count -= 1
zen = TextFile('zen.txt')
zen.read()
print(TextFile.count)
```

```
## 1
print(zen.string.splitlines()[0])
```

```
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```