Password Security

How to Make a Password More Secure

**How to Choose a Secure Password?**
- Has at least 10 characters
- Has uppercase letters
- Has lowercase letters
- Has symbols such as '!', '@', '#', '$', '%'

**My Code At Work**
```
import zipfile
import time

# Zipfile password cracker using a dictionary attack

def crack(zip_filename, dictionary):
    password = None
    i = 0
    zip_file = zipfile.ZipFile(zip_filename)

    try:
        password = bytes(password_string, 'utf-8')
        if password_string == password_string:
            i, password_string
    except:

    print('Password found: %s' % password_string)
    return

if __name__ == '__main__':
    crack('passwordlist.txt')
```

**Password Used To Crack Zip File**
```
import zipfile
import time

# Zipfile password cracker using a dictionary attack

def crack(zip_filename, dictionary):
    password = None
    i = 0
    zip_file = zipfile.ZipFile(zip_filename)

    try:
        password = bytes(password_string, 'utf-8')
        if password_string == password_string:
            i, password_string
    except:

    print('Password found: %s' % password_string)
    return

if __name__ == '__main__':
    crack('passwordlist.txt')
```

**The 50 Most Used Passwords**

1. 123456
2. password
3. 12345678
4. qwerty
5. 123456789
6. 12345
7. 1234
8. 111111
9. 1234567
10. dragon

**Two Factor Authentication**