Authentication

February 22, 2019

In [1]:
```
import re
```

In [17]:
```
class PasswordAuthentication:
            def __init__(self, Password):
                self._Password = Password

            def Authentication(self, Password = ''):
                Password = self._Password
                UserPassword = re.split(r',', Password)

                try:
                    Bool1 = False
                    Bool2 = False
                    Bool3 = False
                    Bool4 = False
                    Bool5 = False
                    Bool6 = False
                    Bool7 = False
                    Bool8 = False
                    for i in range(len(UserPassword)):

                        print('')

                        Boolaz = re.search("[a-z]", UserPassword[i])
                        if Boolaz:
                            Boolaz = True

                        BoolAZ = re.search("[A-Z]", UserPassword[i])
                        if BoolAZ:
                            BoolAZ = True

                        Bool09 = re.search("[0-9]", UserPassword[i])
                        if Bool09:
                            Bool09 = True

                        Boolsym = re.search("[*$_#=@]", UserPassword[i])
                        if Boolsym:
                            Boolsym = True
```

```
                Boolexp = re.search("[%!)(]", UserPassword[i])
                if Boolexp:
                    Boolexp = True

                if len(UserPassword[i]) < 6:
                    print(UserPassword[i], ' Failure Password must be at least 6 chara
                    Bool1 = True

                elif len(UserPassword[i]) > 12:
                    print(UserPassword[i], " Failure Password must be smaller than 12
                    Bool2 = True

                elif Boolaz != True:
                    print(UserPassword[i], " Failure Password must contain at least on
                    Bool3 = True

                elif Bool09 != True:
                    print(UserPassword[i], " Failure Password must contain at least on
                    Bool4 = True

                elif BoolAZ != True:
                    print(UserPassword[i], " Failure Password must contain at least on
                    Bool5 = True

                elif Boolsym != True:
                    print(UserPassword[i], " Failure Password must contain at least on
                    Bool6 = True

                elif Boolexp == True:
                    print(UserPassword[i], " Failure Password cannot contain %!)(.")
                    Bool7 = True

                else:
                    print(UserPassword[i], " Success")
                    Bool8 = False

        except:
                print("Exception Occured")


        finally:
                if (Bool2 == True or Bool3 == True or Bool4 == True or Bool5 == True o
                        print('''
-------------------------------------------------------------------------------
|           Hint: Error messages for each check:
|
|           1. Password must be at least 6 characters long.
```

```
        |           2. Password must be at max 12 characters long.
        |           3. Password must contain at least one letter from <set_that_failed>.
        |           4. Password cannot contain %!)(.)
        ------------------------------------------------------------------------------------


        Password = input("Entre User Password: ")
        Output = PasswordAuthentication(Password)
        Output.Authentication()
```

```
Entre User Password: 12sdA@83,a F1#,2w3E*%dg,2We3345, 1234567

12sdA@83  Success

a F1#  Failure Password must be at least 6 characters long.

2w3E*%dg  Failure Password cannot contain %!)(.

2We3345  Failure Password must contain at least one letter from *$_#=@.

 1234567  Failure Password must contain at least one letter from a-z.

------------------------------------------------------------------------------------
|           Hint: Error messages for each check:                                   |
|                                                                                  |
|           1. Password must be at least 6 characters long.                        |
|           2. Password must be at max 12 characters long.                         |
|           3. Password must contain at least one letter from <set_that_failed>.   |
|           4. Password cannot contain %!)(.)                                      |
------------------------------------------------------------------------------------
```