Session_1

October 23, 2022

1 Session 1

1.1 Exercise 1:

Write a "Validate" function to check the validity of a given Password. The password must have: - At least 8 characters - at least 1 digit(s) - at least 1 lower case letter(s) - at least 1 upper case letter(s) - at least 1 non-alphanumeric character(s) such as as *, -, or # .

1.1.1 Solution:

[1]:
```
def validate_password(password):
    if (len(password) < 8):
        return False
    l, u, s, d = 0, 0, 0, 0
    special_chars = ['*', '-', '_', '#']
    for c in password:
        if c.islower():
            l+=1
        if c.isupper():
            u+=1
        if c.isdigit():
            d+=1
        if c in special_chars:
            s+=1
    return l>0 and u>0 and s>0 and d>0
```

[4]:
```
p = input("Enter the password: ")
if validate_password(p):
    print('your password is vaild!')
else:
    print('your password is NOT valid!')
```

```
Enter the password: qwerty123456
your password is NOT valid!
```

1.2 Exercise 2:

Write a "Validate" function to check the validity of a given IP. The IP must be: - A.B.C.D - for example "192.168.0.38". - A, B, C and D must be a number between 0 and 255

1.2.1 Solution:

[11]:
```
def validate_ip(ip):
    r=ip.split(".")
    if len(r)!=4:
        return False
    for i in r:
        if int(i) not in range(0,256):
            return False
    return True
```

[12]:
```
ip = input("Enter the ip: ")
if validate_ip(ip):
    print("your ip is valid!")
else:
    print("your ip is NOT valid!")
```

```
Enter the ip: 192.168.1.1
your ip is valid!
```

[ ]:
```

```