Lab Exercise 6

Q1. Write a program using the Regular Exception and create a function that accepts a string and searches it for a valid phone number. Return the phone number if found. A valid phone number may be one of the following: (xxx)-xxx-xxxx xxx-xxx-xxxx

In [ ]:
```
import re
def find_mobile_no(text):
    mobile = re.search(r"(\(\d{3}\)-\d{3}-\d{4}|\d{3}-\d{3}-\d{4})",text)
    if mobile:
        return(mobile.group())
    return None


text = "the mobile number is 988-674-3044"
print(text)
mobile = find_mobile_no(text)
print(mobile)

# the mobile number is (988)-674-3044
text = input("Enter a text:\t")
print(text)
mobile = find_mobile_no(text)
print(mobile)
```

```
the mobile number is 988-674-3044
988-674-3044
the mobile number is (988)-674-3044
(988)-674-3044
```

Q2. Write a function that employs regular expressions to ensure the password given to the function is strong. A strong password is defined as follows: · at least eight characters long · contains one uppercase character · contains one lowercase character · has at least one digit · has at least one special character [For instance: Christ@123]

In [ ]:
```
import re
def is_strong_password(pwd):
    if len(pwd)<8:
        return False
    if not(re.search(r"[a-z]",pwd)):
        return False
    if not(re.search(r"[A-Z]",pwd)):
        return False
    if not(re.search(r"\d",pwd)):
        return False
    if not(re.search(r"[!@#$%^&*()-=,.<>/?;:'~_+]",pwd)):
        return False
    return True

# Chrit@123
# chri
text = input("Enter a password: ")
print(text)
output = is_strong_password(text)
if(output):
    print("Strong Password!")
```

```
else:
    print("not strong Password, try again")
```

```
Chrit@123
Strong Password!
```