In [ ]:
```
"""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
"""

import re
def valid_number(phone_no):
    print("The entered phone number is :",phone_no)
    pattern = r"\(\d{3}\)-\d{3}-\d{4}|\d-{3}-\d{4}"
    match = re.search(pattern,phone_no)
    if match:
        return phone_no
    else :
        return None


phone_no= input("Enter a phone number")
valid_phone = valid_number(phone_no)
if(valid_phone!=None):
    print(valid_phone," is a valid number")
else:
    print("It is not a valid number")
```

```
The entered phone number is : (812)-953-5033
(812)-953-5033  is a valid number
```

In [ ]:
```
"""
Write a function that employs regular expressions to ensure the password given t
"""


"""
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]
"""
import re
def valid_password(password):
    print("Entered password : ",password)
    pattern=r"^(?=.*[A-Z])(?=.[a-z])(?=.*[0-9])(?=.*[!@#$%^&*()])(.{8,})$"
    match = re.search(pattern,password)
    if match:
        return password
    else:
        return None



password= input("Enter a password")
strong_password = valid_password(password)
if(strong_password!=None):
```

```
    print(strong_password," is a strong password")
else:
    print("It is not a strong password")
```

```
Entered password :  Ax1#asdfgh
Ax1#asdfgh  is a strong password
```