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 check_number(number):

    if re.search(r"^(\(?[0-9][0-9][0-9]\)?|[0-9][0-9][0-9])(-?)([0-9][0-9][0-9])(-?
        print("Looks Good - Valid Phone Number")
    else:
        print("Enter a valid Phone Number")


number = "(132)-456-7890"
number2 = "123-456-9876"
number3 = "1234567890"

check_number(number)
check_number(number2)
check_number(number3)

number4 = "1234567890122"
check_number(number4)
```

```
Looks Good
Looks Good
Looks Good
Enter a valid Phone Number
```

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 check_password_strength(password):

    pattern = r'^(?=.*[A-Z])(?=.*[a-z])(?=.*\d)(?=.*[@$!%*?&])[A-Za-z\d@$!%*?&]{8,}

    if re.match(pattern, password):
```

```
        return True
    else:
        return False

# User input section
password = input("PLEASE ENTER YOUR PASSWORD : ")
# Condition for checking the password
if check_password_strength(password):
    print("PASSWORD CREATED IS STRONG.")
else:
    print("PASSWORD CREATED IS NOT STRONG.")
```

```
PASSWORD CREATED IS STRONG.
```