Q.10) Write a Python program to check the validity of a password given by the user

```
import re
def password_validity(password):
if len(password) < 8:
return "Password must be at least 8 characters long."
if not re.search("[a-z]", password):
return "Password must contain at least one lowercase letter."
if not re.search("[A-Z]", password):
return "Password must contain at least one uppercase letter."
if not re.search("[0-9]", password):
return "Password must contain at least one digit."
if not re.search("[@#$%^*\&+=]", password):
return "Password must contain at least one special character (@, #, $, %, ^, &, +, =)."
return "Password is valid."
user_password = input("Enter a password: ")
validate_result = password_validity(user_password)
print(validate_result)
```