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#Lab Exercise 5
#Q1. Write a program to handle the exception of ZeroDivisionError.
try:
    numerator=int(input("Enter the Numerator :"))
    denominator=int(input("Enter the Denominator :"))
    result=numerator/denominator
    print("Result : ",result)
except ZeroDivisionError:
    print("Divison by zero not allowed ")
except ValueError:
    print("Enter a valid Number")
except Exception as e:
    print("An error occurred",e)
Divison by zero not allowed
#Q2. Write a program to handle the exception of IndexError.
def index access program(my list, index):
    try:
        value = my list[index]
        return value
    except IndexError:
        print("Error: Index out of range.")
        return None
    finally:
        print("Index access attempted.")
my list = [1, 2, 3]
index to access = 5
result = index access program(my list, index to access)
if result is not None:
    print("Value at index", index to access, ":", result)
Error: Index out of range.
Index access attempted.
#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.
import re
txt=input("enter the string")
print(txt)
x = re.search(r''((\d{3}))-\d{3}-\d{4}|\d{3}-\d{4})'', txt)
if x is not None:
    print("Phone Number found:",x.group())
    print("Phone Number not found")
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(123) - 456 - 7894
Phone Number found: (123)-456-7894
#Q2. Write a function that employs regular expressions to ensure the
password given to the function is strong.
import re
def password(string):
    if len(string)<8:</pre>
        return False
    if not re.search(r'[A-Z]',string):
        return False
    if not re.search(r'[a-z]',string):
        return False
    if not re.search(r'\d',string):
        return False
    if not re.search(r'[!@\#\$\%^{*}()_{+}\{\{\}]:;<>,.?~]',string):
        return False
    return True
string=input(print("Enter a password : "))
print(string)
if (password(string))==True:
    print("The entered password is strong")
else:
    print("The entered password is weak")
Enter a password :
Password#1232
The entered password is strong
```