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In [ ]: # Q1. Write a program to handle the exception of ZeroDivisionError.
        try:
           a=int(input("Enter 1st number"))
           b=int(input("Enter 2nd number"))
           c=a/b
           print(c)
        except ZeroDivisionError as e:
           print(e)
           # print("It's an error")
      division by zero
In [ ]: # Q2. Write a program to handle the exception of IndexError.
        # [Handle the exceptions with 'Try', 'Except', 'Finally' and 'Raise' according to the requirements in the program.]
        try:
           arr1=["koushik", "das", 1, 2]
           print(arr1[4])
           print(arr1[3])
           a=int(input("Enter 1st number"))
           b=int(input("Enter 2nd number"))
           if(b==0):
                raise ZeroDivisionError("ZeroDivisionError")
           else:
                print(a/b)
        except IndexError as e:
           print(e)
        finally:
           print("The code ran successfully")
      list index out of range
      The code ran successfully
In [ ]: # 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
        import re
        def func1(text):
           pattern1=r'[(?][0-9]{3}[)?]\-[0-9]{3}\-[0-9]{4}'
           pattern2=r'[0-9]{3}-[0-9]{3}-[0-9]{4}'
           match1=re.search(pattern1, text)
           match2=re.search(pattern2, text)
           if match1 or match2:
                print("Valid phn number")
           else:
                print("Invalid phn number")
        text=str(input("Enter the string"))
        func1(text)
      Invalid phn number
In []: # 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]
        import re
        def func1(text):
           pattern2=r'[A-Z]+'
            pattern3=r'[a-z]+'
            pattern4=r'[0-9]+'
            pattern5=r'[@ - / , .]+'
            match2=re.search(pattern2, text)
            match3=re.search(pattern3, text)
            match4=re.search(pattern4, text)
            match5=re.search(pattern5, text)
           if match2 and match3 and match4 and match5:
                print("Password Set Successfully")
            else:
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print("Set a Valid Password")
text=str(input("Enter the string"))
func1(text)

Password Set Successfully