Common base class for all non-exit exceptions. Method resolution order: Exception BaseException object Built-in subclasses: ArithmeticError AssertionError AttributeError BufferError ... and 15 other subclasses Methods defined here: __init__(self, /, *args, **kwargs) Initialize self. See help(type(self)) for accurate signature. Static methods defined here: __new__(*args, **kwargs) from builtins.type Create and return a new object. See help(type) for accurate signature. Methods inherited from BaseException: __delattr__(self, name, /) Implement delattr(self, name). __getattribute__(self, name, /) Return getattr(self, name). __reduce__(...) Helper for pickle. __repr__(self, /) Return repr(self). __setattr__(self, name, value, /) Implement setattr(self, name, value). __setstate__(...) __str__(self, /) Return str(self). with_traceback(...) Exception.with_traceback(tb) -set self.__traceback__ to tb and return self. Data descriptors inherited from BaseException: __cause_ exception cause __context__ exception context ___dict___ __suppress_context__ __traceback__ args In [8]: help(BaseException) Help on class BaseException in module builtins: class BaseException(object) Common base class for all exceptions Built-in subclasses: Exception GeneratorExit KeyboardInterrupt SystemExit Methods defined here: __delattr__(self, name, /) Implement delattr(self, name). __getattribute__(self, name, /) Return getattr(self, name). __init__(self, /, *args, **kwargs) Initialize self. See help(type(self)) for accurate signature. __reduce__(...) Helper for pickle. __repr__(self, /) Return repr(self). __setattr__(self, name, value, /) Implement setattr(self, name, value). __setstate__(...) __str__(self, /) Return str(self). with_traceback(...) Exception.with_traceback(tb) -set self.__traceback__ to tb and return self. ______ Static methods defined here: __new__(*args, **kwargs) from builtins.type Create and return a new object. See help(type) for accurate signature. -----Data descriptors defined here: __cause__ exception cause __context__ exception context ___dict___ __suppress_context__ __traceback__ args In [6]: Traceback (most recent call last) ZeroDivisionError ~\AppData\Local\Temp/ipykernel_4364/2590173015.py in <module> ----> 1 6/0 ZeroDivisionError: division by zero help(ZeroDivisionError) Help on class ZeroDivisionError in module builtins: class ZeroDivisionError(ArithmeticError) Second argument to a division or modulo operation was zero. Method resolution order: ZeroDivisionError ArithmeticError Exception BaseException object Methods defined here: __init__(self, /, *args, **kwargs) Initialize self. See help(type(self)) for accurate signature. ______ Static methods defined here: __new__(*args, **kwargs) from builtins.type Create and return a new object. See help(type) for accurate signature. -----Methods inherited from BaseException: __delattr__(self, name, /) Implement delattr(self, name). __getattribute__(self, name, /) Return getattr(self, name). __reduce__(...) Helper for pickle. __repr__(self, /) Return repr(self). __setattr__(self, name, value, /) Implement setattr(self, name, value). __setstate__(...) __str__(self, /) Return str(self). with_traceback(...) Exception.with_traceback(tb) -set self.__traceback__ to tb and return self. Data descriptors inherited from BaseException: __cause__ exception cause __context__ exception context __dict__ __suppress_context__ __traceback__ | args # IndexError st="KKK" for ch in range(0, len(st)+1): print(st[ch]) Κ Κ IndexError Traceback (most recent call last) ~\AppData\Local\Temp/ipykernel_4364/590709430.py in <module> 2 st="**KKK**" 3 for ch in range(0,len(st)+1): ---> 4 print(st[ch]) IndexError: string index out of range In [12]: # TypeError ans="dffhjhk"+56 Traceback (most recent call last) ~\AppData\Local\Temp/ipykernel_4364/997365479.py in <module> 1 # TypeError ----> 2 ans="dffhjhk"+56 TypeError: can only concatenate str (not "int") to str In [14]: # ValueError num=int(input("Enter Number")) print(num) Enter Numberdhgfjf -----ValueError Traceback (most recent call last) ~\AppData\Local\Temp/ipykernel_4364/3429185578.py in <module> 1 # ValueError ----> 2 num=int(input("Enter Number")) 3 print(num) ValueError: invalid literal for int() with base 10: 'dhgfjf' In [15]: # NameError x=ans+7 Traceback (most recent call last) ~\AppData\Local\Temp/ipykernel_4364/1480440498.py in <module> ----> **1** x=ans+**7** NameError: name 'ans' is not defined In [20]: try: a=int(input("Number 1 :")) b=int(input("Number 2 :")) ans=a/b print("Division is :",ans) except ZeroDivisionError as e: print("Don't divide bt ZERO") except ValueError as v: print("Please enter numeric value!") except: print("Exception occured") Number 1 :3 Number 2:0 Don't divide bt ZERO In [22]: try: #a=int(input("Number 1 :")) b=int(input("Number 2 :")) print("x",x) ans=x/b print("Division is :",ans) except ZeroDivisionError as e: print("Don't divide bt ZERO") except ValueError as v: print("Please enter numeric value!") except: print("Exception occured") Number 2:45 Exception occured In [35]: 11=[3,4,5,6,7] try: sum=0 for i in l1: sum**+=**i #print(sum) av=sum/len(l1) #print("Average", av) except TypeError as e: print(e) print("It is Type Error") except NameError as e: print(e) except ZerodivisionError as e: print(e) else : print(sum) print("Average", av) print("Exception complete") 25 Average 5.0 Exception complete In [41]: # AssertionError try: assert age>18, "Age is not above 18....it the problem" print("Eligible for Votting") except AssertionError as e: print(e) else: print("Verification Done") Age is not above 18....it the problem In [42]: def verify(): assert age>18, "Age is not above 18....it the problem" print("Eligible for Votting") try: verify() except AssertionError as e: print(e) else: print("Verification Done") Age is not above 18....it the problem In [5]: import sys def platformBasedTask(color): assert "linux" in sys.platform, "This is not supported them on this platform" print("Theme set to",color) print(color, "Color theme is supported", sys.platform) try: platformBasedTask("BLUE") except AssertionError as e: print(e) except: print("Something went wrong") This is not supported them on this platform # Constructor Overloading In [11]: class InvalidAgeException(Exception): def __int__(self,err="Invalid age"): self.err=err def showError(self): print(err) In [14]: try: age=int(input("Enter your Age")) if(age<0 and age>18): raise InvalidAgeException("Please enter the number") except InvalidAgeException as e: e.showError() else: print("Login successfully!") Enter your Age21 Login successfully! In [1]: # File Handling f=open("food.py") #print(f.read()) #print(f.read(8)) #print(f.readline()) print(f.readlines()) f.close() ['from FoodWorld import food\n', '\n', 'print("This is food world")\n', 'print("Module is",__name__)\n', '\n', "v=food('Pizza',3,540)\n", 'v.display()\n', 'v. calcBill()\n', 'print("___ _____")\n'] In [2]: try: f=open("food.py") print(f.readlines()) except FileNotFoundError as e: print(e) else: print("Reading done!") finally: f.close() ['from FoodWorld import food\n', '\n', 'print("This is food world")\n', 'print("Module is",__name__)\n', '\n', "v=food('Pizza',3,540)\n", 'v.display()\n', 'v. calcBill()\n', 'print("___ Reading done! In [3]: try: with open("food.py") as f: print(f.readlines()) except FileNotFoundError as e: print(e) else: print("Reading done!") ['from FoodWorld import food\n', '\n', 'print("This is food world")\n', 'print("Module is",__name__)\n', '\n', "v=food('Pizza',3,540)\n", 'v.display()\n', 'v. calcBill()\n', 'print("_____")\n'] Reading done! In [4]: try: with open("food.py", "w") as f: f.write("Good Evening!") except FileNotFoundError as e: print(e) else: print("Reading Done!") Reading Done! In [12]: try: with open("School.py", "a") as f: f.write("Let's complete File Handeling today!") with open("School.py", "r") as f1: print(f1.read()) except FileNotFoundError as e: print(e) else: print("Writing and Reading Done!") Let's complete File Handeling today! Writing and Reading Done! In [6]: try: with open("Calculator.py",'r') as f: with open("food.py", 'a') as f1: for i in f: f1.write(i) print(type(f1)) except FileNotFoundError as e: print(e) else: print("Reading and Writing Done!") <class '_io.TextIOWrapper'> Reading and Writing Done! In []: # Assignment In [17]: # 1.Read contents of file character by character. try: with open('food.py') as f: for i in f: for ch in i: print(ch,end=' ') except FileNotFoundError as e: print(e) else: print("Reading Done!") reghfrom FoodWorld import food print("This is food world") print("Module is",__name__) v = f o o d (' P i z z a ' , 3 , 5 4 0) v.display() v.calcBill() print("____ dfgLet's complete File Handeling today! Reading Done! In [10]: # 2.Read contents of file line by line. try: filename = "food.py" with open(filename) as diary_file: n = 1 for line in diary_file: print(n, line) n += 1 except FileNotFoundError as e: print(e) else: print("Reading Done!") 1 from FoodWorld import food 2 3 print("This is food world") 4 print("Module is", __name__) 5 6 v=food('Pizza',3,540) 7 v.display() 8 v.calcBill() 9 print("__ Reading Done! In [11]: # 3.Read contents of file word by word. with open("food.py",'r') as file: for line in file: for word in line.split(): print(word) except FileNotFoundError as e: print(e) else: print("Reading Done!") from FoodWorld import food print("This is food world") print("Module is",__name__) v=food('Pizza',3,540) v.display() v.calcBill() print("_ Reading Done! In [13]: # 4.remove file 1 import os if os.path.exists("food.py"): os.remove("food.py") print("Removed") else: print("The file does not exist") Removed In [15]: # 5.Copy contents from one file to another with open('Calculator.py','r') as f, open('food.py','a') as f1: for i in f: f1.write(i) except FileNotFoundError as e:

print(e)

print("Copy Done!")

else:

In []:

In [4]:

help(Exception)

Help on class Exception in module builtins:

class Exception(BaseException)