OOP_PCOM7E September 2022 Object Oriented Programming

Unit 8: Errors and Data Structures

Activity 1: Errors
Incorporate the following code into a Python program to handle exceptions.

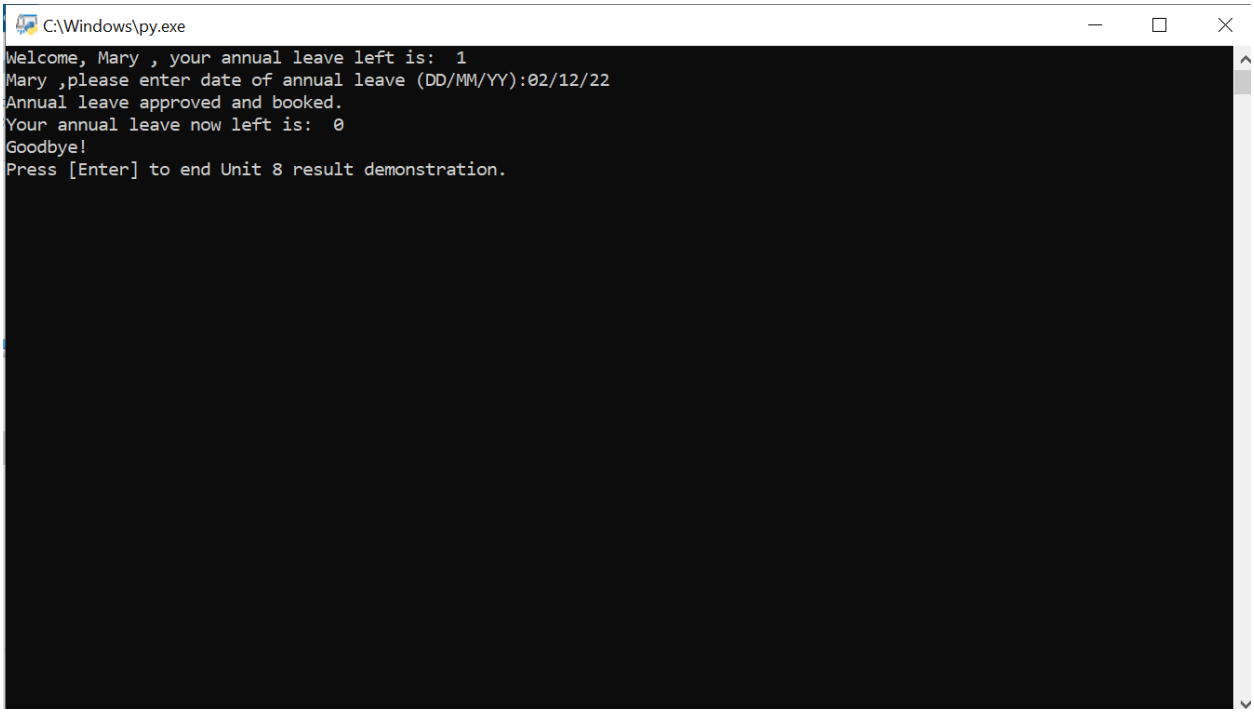
```
try:
   # do something
   pass

except ValueError:
   # handle ValueError exception
   pass

except (TypeError, ZeroDivisionError):
   # handle multiple exceptions
   # TypeError and ZeroDivisionError
   pass

except:
   # handle all other exceptions
   pass
```

Source: Programiz (n.d.) **Python Exception Handling Using try, except and finally statement**.

Notes to reader:

In this exercise, I inert the code “Try” and “except” in the code. See yellow hightlighted lines in the program section below. The Result does not demonstrate the effect of using this exception code but still display as follows to show the program can run properly. The whole source code is being included in a separate file, if you are interested in it please refer to the separate file.

Result



Program

```
# creating class
class STAFF:
  def __init__(self, name, age, post, salary):
   self._name = name
   self._age = age
   self._post = post
   self._salary = salary

class ANNUALCAL(STAFF):
  def __init__(self, name, age, post, salary, no_leaveday_left):
    STAFF.__init__(self, name, age, post, salary)
    self._AL_left = no_leaveday_left

  def print_AL_left(self):
    AL = int(self._AL_left)

#Assume there are several days available for annual leave:
D1 = "02/12/22"
D2 = "03/12/22"
D3 = "04/12/22"

def ALS(s):
  AL = int(s._AL_left,)
  print("Welcome,", s._name, ", your annual leave left is: ", AL)
  X = True
  while X == True:
    msg = s._name + " ,please enter date of annual leave (DD/MM/YY):"
    DD = input(msg)
    try:
      if DD == D1 or DD == D2 or DD == D3:
        print ("Annual leave approved and booked.")
        AL = AL-1
        print("Your annual leave now left is: ", AL)
        X = False
    except:
        pass


def printing(n,m):
  print(n,"is smart", m ,"is also smart")

P1 = ANNUALCAL("Mary",20,"Clerk",10000,1)

ALS(P1)

print("Goodbye!")
```