OOP_PCOM7E September 2022 Object Oriented Programming

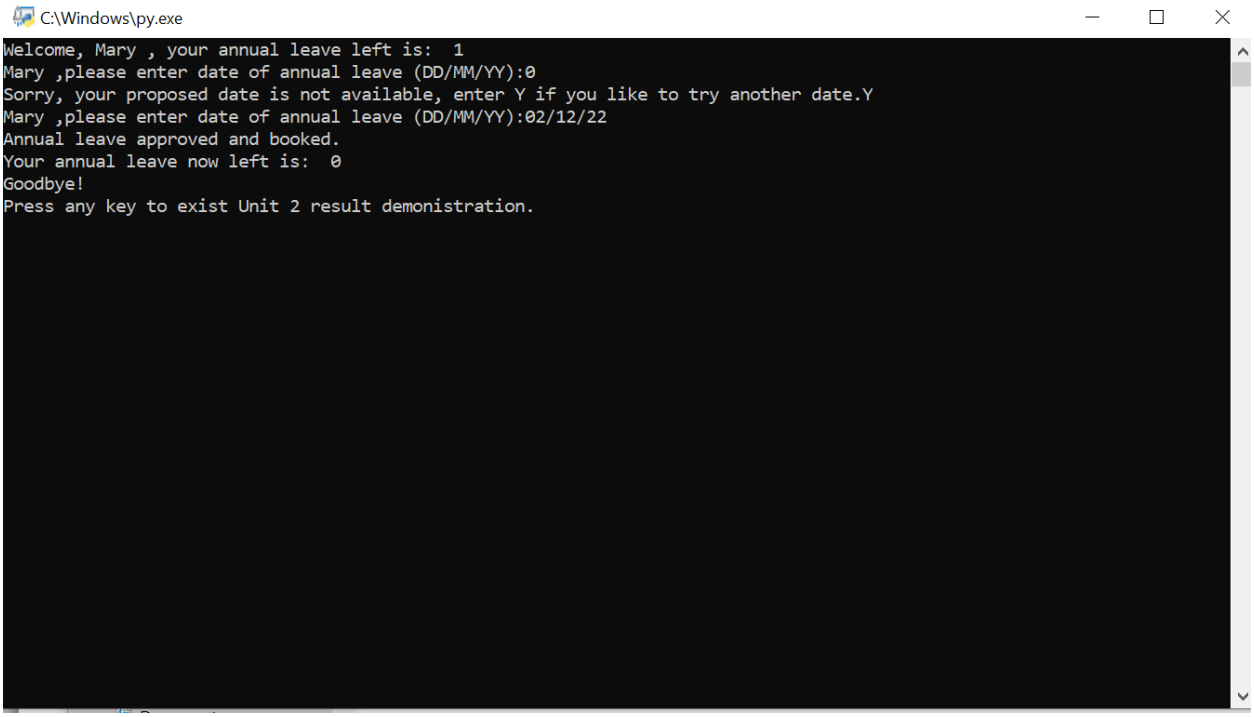
Unit 2 Object Oriented Analysis - Initial Steps towards Programming in Python

Optional extension activities

Write a Python program to achieve basic employee-related functionality which includes retaining employee details and allowing an employee to book a day of annual leave. Extend the Python program you have now created to use protected and unprotected variables. Remember to record your findings in your e-portfolio.

Notes to reader:
This exercise related to an employee-related function. The program firstly displays the number of annual leave left for the employee. Then it allows the staff to book a annual leave date. Thereafter the total number of annual leave is deducted after booking. Result is demonstrated as follows. The source code is set out in a separate file and if anyone is interested please refer to it.

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):
    STAFF.__init__(self, name, age, post, salary)

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

  def  ALS(s):
    While x = True:
    DD = input(“please enter date of annual leave (DD/MM/YY):”)
    If DD ==D1 or DD == D2 or DD = D3;
       print (“Annual leave approved and booked”)
       X = False
    else:
       DX = input(“Sorry, your proposed date is not available, enter “Y” if you like to try another date.”)
         If DX = “Y”:
           continue
         else:
            break


P1 =(“mary”,20,”clerk”,10000)
   ALS(P1)
```