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# Fahmi Omer
# ICS 4U1
# Classes
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# Assignment #4 - Air Travel
# Program Description: Take input from files and create and use classes to
solve various questions about the given airports and flights such as
destinations, origins, flights in countries, in cities, and more
# Importing the Airport file so the Airport class can be used
from Airport import *
# Creating the flight class for use
class Flight:
    # Initializing all properties of the class
   def __init__(self, flightNo="", origin=Airport(),
destination=Airport()):
        if not isinstance (origin, Airport):
            raise TypeError(
                "The origin and destination must be Airport objects")
        if not isinstance (destination, Airport):
            raise TypeError(
                "The origin and destination must be Airport objects")
        self. flightNo = flightNo
        self. origin = origin
        self. destination = destination
    # Printing return line of the object when printed
   def repr (self):
        if self.isDomesticFlight():
            return "Flight: {} from {} to {}".format(self. flightNo,
self. origin. city, self. destination. city) + " {domestic}"
            return "Flight: {} from {} to {}".format(self. flightNo,
self. origin. city, self. destination. city) + " {international}"
    # Checking if self and other are the same flight
   def eq (self, other):
        if isinstance(other, Flight):
            if self. origin == other. origin and self. destination ==
other. destination:
                return True
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else:
              return False
        else:
           return False
    # returning the number attribute of the flight
   def getFlightNumber(self):
        return self. flightNo
    # returning the origin airport attribute of the flight
   def getOrigin(self):
        return self. origin
    # returning the destination airport attribute of the flight
   def getDestination(self):
       return self. destination
    # Checking if the flight is within the country or outside of the
country
   def isDomesticFlight(self):
        if self._origin._country == self._destination._country:
            return True
       else:
           return False
    # creating function to allow changing the origin airport
   def setOrigin(self, origin):
        self. origin = origin
    # creating function to allow changing the destination airport
   def setDestination(self, destination):
        self. destination = destination
```