## MIT AITI Python Software Development



## Lab 05: Python Classes, Solution

The following code is just one solution to the exercises, there are many other possibilities to implement the address book.

# Use the following template:# MIT AITI Indonesia Summer 2013# File: Python2lab.py# Below are templates for your answers to Lab 5

# INSTRUCTIONS: Write your complete name in student\_name and age in student\_age # Complete the implementation of functions and classes as described in the handout. # Delete the pass statements below and insert your own code. student\_name = 'Markus von Rudno' student\_age = 22

```
class Person:
  Takes in a persons last name, first name, phone number,
  and email address(es).
  ...
  def init (self, lastName, firstName, phoneNumber, emailAddress):
    self.lastName = lastName
    self.firstName = firstName
    self.phoneNumber = phoneNumber
    self.emailAddress = emailAddress
  def __str__(self):
    s = (self.lastName + ', ' + self.firstName
      + ' -- Phone Number: ' + self.phoneNumber
      + ' -- Email Address(es): ' + self.emailAddress)
    return s
class AddressBook:
  def __init__(self):
    self.contacts = {}
  def add_person(self, person):
    if person.lastName not in self.contacts:
```

```
self.contacts[person.lastName] = [person]
else:
    self.contacts[person.lastName] += [person]
def lookup_contact(self, lastname, firstname=None):
```

```
matches = self.contacts[lastname]
if firstname is None:
    for p in matches:
        print p
        return
else:
        for p in matches:
            if p.firstName is firstname:
                print p
        return
```