

Programming Exercise 11-3

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# person.py
class Person:
    def __init__(self, name, address, phone_number):
        self.__name = name
        self.__address = address
        self.__phone_number = phone_number

    def set_name(self, name):
        self.__name = name

    def set_address(self, address):
        self.__address = address

    def set_phone_number(self, phone_number):
        self.__phone_number = phone_number

    def get_name(self):
        return self.__name

    def get_address(self):
        return self.__address

    def get_phone_number(self):
        return self.__phone_number

class Customer(Person):
    def __init__(self, name, address, phone_number, cust_number, on_list):
        # Call superclass __init__ method
        Person.__init__(self, name, address, phone_number)

        # Initialize the cust_number and on_list attributes
        self.__cust_number = cust_number
        self.__on_list = on_list

    # Mutator functions for cust_number and on_list
    def set_cust_number(self, cust_number):
        self.__cust_number = cust_number

    def set_on_list(self, on_list):
        self.__on_list = on_list

    # Accessor functions for cust_number and on_list
    def get_cust_number(self):
        return self.__cust_number

    def get_on_list(self):
        return self.__on_list
```

```
# Exercise 11-3.py
import person

def main():
    # Local variables
    name = ''
    address = ''
    phone_number = ''
    cust_number = 0
    on_list_flag = False

    # Get data attributes.
    name = input('Enter the name: ')
    address = input('Enter the address: ')
    phone_number = input('Enter the phone_number: ')
    cust_number = input('Enter the customer number: ')
    on_list = input('Does the customer wish to be ' \
                    'on the mailing list?(Yes/No) ')

    if on_list == 'Yes':
        on_list_flag = True
    else:
        on_list_flag = False

    # Create an instance of Customer.
    customer = person.Customer(name, address, phone_number, \
                               cust_number, on_list_flag)

    # Display information.
    print ('Customer information: ')
    print ('Name:', customer.get_name())
    print ('Address:', customer.get_address())
    print ('Phone number:', customer.get_phone_number())
    print ('Customer Number:', customer.get_cust_number())
    print ('On Mailing List:', customer.get_on_list())

# Call the main function.
main()
```