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| **Program 01** |
| **Output** |
| >>>  RESTART: /Users/biniamlemma/Desktop/CSCI\_2061/Assn\_10/Assn 010 Pr 01 Start.py  Please enter the name: Scrooge McDuck  Please enter the age: 82  Please enter the address: 123 Easy Street  Please enter the type of person: Millionare  How many vacation homes does he/she have? 4  Go again?Y  Please enter the name: John Miller  Please enter the age: 30  Please enter the address: Ramelle, France  Please enter the type of person: Teacher  How much mortgage is remaining? 30000  Go again?y  Please enter the name: Susan Stressed  Please enter the age: 19  Please enter the address: Apt. 101, Faulty Towers  Please enter the type of person: Student  How much is rent this month? 500  Go again?N  Millionare Scrooge McDuck  Restaurant: Driver, take me to Mannys Steakhouse  Order: Caviar, filet mignon, Lobster and several bottles of your best wine!  What is the bill?300  Bill: Here you go $450.0! And keep the change!  Teacher John Miller  Restaurant: Honey, how about Chilis tonight?  Order: Can I have the special? And how much is a tall beer?  What is the bill?30  Bill: Are you sure 30.0 is correct? Ok, here you go 34.5  Student Susan Stressed  Restaurant: MacDonalds or Culvers?  Order: Burger and fries please!  What is the bill?10  Bill: Can I owe you 10.0 bucks or do the dishes?  >>> |
| **Source Code** |
| # CSCI 2061, Assignment 10, Problem 01  # Robert Niemann  # Biniam Lemma  # Person, super class  class Person(object):  def \_\_init\_\_(self, name, age, address, typePerson):  self.name = name  self.age = age  self.address = address  self.typePerson = typePerson  def restaurant(self):  pass  def order(self):  pass    def pay\_bill(self, bill):  pass  # Millionare, sub class  class Millionare(Person):  def \_\_init\_\_(self, name, age, address, typePerson, vacationHomes):  Person.\_\_init\_\_(self, name, age, address, typePerson)  self.vacationHomes = vacationHomes  def restaurant(self):  print('Restaurant: Driver, take me to Mannys Steakhouse')  def order(self):  print('Order: Caviar, filet mignon, Lobster and several bottles of your best wine!')    def pay\_bill(self, bill):  tip = bill / 2  total = bill + tip  print("Bill: Here you go ${}! And keep the change!".format(total))  # Teacher, sub class  class Teacher(Person):  def \_\_init\_\_(self, name, age, address, typePerson, mortgage):  Person.\_\_init\_\_(self, name, age, address, typePerson)  self.mortgage = mortgage  def restaurant(self):  print('Restaurant: Honey, how about Chilis tonight?')  def order(self):  print('Order: Can I have the special? And how much is a tall beer?')    def pay\_bill(self, bill):  tip = bill \* 0.15  total = bill + tip  print('Bill: Are you sure {} is correct? Ok, here you go {}'.format(bill, total))  # Student, sub class  class Student(Person):  def \_\_init\_\_(self, name, age, address, typePerson, rent):  Person.\_\_init\_\_(self, name, age, address, typePerson)  self.rent = rent  def restaurant(self):  print('Restaurant: MacDonalds or Culvers?')    def order(self):  print('Order: Burger and fries please!')    def pay\_bill(self, bill):  print('Bill: Can I owe you {} bucks or do the dishes?'.format(bill))  # main function  def main():  persons = []  again = 'Y'  ## Input data for different people and add appropriate object to list  while(again == 'Y' or again == 'y'):  name = input('Please enter the name: ')  age = int(input('Please enter the age: '))  address = input('Please enter the address: ')  typePerson = input('Please enter the type of person: ')    if typePerson.lower() == 'millionare':  vacationHomes = int(input('How many vacation homes does he/she have? '))  persons.append(Millionare(name, age, address, typePerson, vacationHomes))  if typePerson.lower() == 'teacher':  mortgage = float(input('How much mortgage is remaining? '))  persons.append(Teacher(name, age, address, typePerson, mortgage))  if typePerson.lower() == 'student':  rent = float(input('How much is rent this month? '))  persons.append(Student(name, age, address, typePerson, rent))  again = input('Go again?')  print()      ## Display information for people in list  for person in persons:  print(person.typePerson, "", person.name)  person.restaurant()  person.order()  bill = float(input('What is the bill?'))  person.pay\_bill(bill)  print()    if \_\_name\_\_ == '\_\_main\_\_': main() |

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| **Program 02** |
| **Output** |
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| **Source Code** |
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| **Program 03** |
| **Output** |
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| **Source Code** |
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| **Program 04** |
| **Output** |
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| **Source Code** |
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| **Program 05** |
| **Output** |
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| **Source Code** |
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