## 分析一个水杯的属性和功能，使用类描述并创建对象

高度，容积，颜色，材质

能存放液体

|  |
| --- |
| class cup : #水杯  \_\_high = 0  \_\_volume = 0  \_\_color = ""  \_\_material = ""  def setHigh(self,high): #高度  if high > 0:  self.\_\_high = high  def getHigh(self):  return self.\_\_high  def setVolume(self,volume): #容量  if volume > 0 :  self.\_\_volume = volume  def getVolume(self):  return self.\_\_volume  def setColor(self, color): #颜色  self.\_\_color = color  def getColor(self):  return self.\_\_color  def setMaterial(self, material): #材质  self.\_\_material = material  def getMaterial(self):  return self.\_\_material  def cup\_run(self): #功能  into\_high = input("\t请输入水杯高度(cm)：")  into\_volume = input("\t请输入水杯容量(ml)：")  into\_color = input("\t请输入水杯颜色：")  into\_material = input("\t请输入水杯材质")  while True:  if into\_high.isdigit():  c.setHigh(int(into\_high))  break  else:  print("\*水平高度\* \t输入非法字符，请重新输入！")  into\_high = input("\t请输入水杯高度(cm)：")  while True:  if into\_volume.isdigit():  c.setVolume(int(into\_volume))  break  else:  print("\*水平容量\*\t输入非法字符，请重新输入！")  into\_volume = input("\t请输入水杯容量(ml)：")  c.setColor(into\_color)  c.setMaterial(into\_material)  cup = '''  高度:%scm  容量:%sML  颜色:%s  材质:%s  '''  print(cup % (self.\_\_high,self.\_\_volume,self.\_\_color,self.\_\_material))  print("\t\t",self.\_\_color,"的",self.\_\_material,"杯能存放",self.\_\_volume,"ML的液体")  c = cup() c.cup\_run() |

## 有笔记本电脑（屏幕大小，价格，cpu型号，内存大小，待机时长），行为（打字，打游戏，看视频）

|  |
| --- |
| class computer:  \_\_screen = 0  \_\_price = 0  \_\_cpu = ""  \_\_ram = 0  \_\_standtime = 0  def setScreen(self,screen):  self.\_\_screen = screen  def getScreen(self):  return self.\_\_screen  def setPrice(self,price):  self.\_\_price = price  def getPrice(self):  return self.\_\_price  def setCpu(self,cpu):  self.\_\_cpu = cpu  def getCpu(self):  return self.\_\_cpu  def setRam(self,ram):  self.\_\_ram = ram  def getRam(self):  return self.\_\_ram  def setStandtime(self,standtime):  self.\_\_standtime = standtime  def getStandtime(self):  return self.\_\_standtime  def computer\_run(self):  into\_screen = input("请输入屏幕尺寸（寸）：")  into\_price = input("请输入价格：￥")  into\_cpu = input("请输入cpu：")  into\_ram = input("请输入内存(G)：")  into\_standtime = input("请输入待机时间(小时)：")  while True:  if into\_screen.isdigit():  co.setScreen(int(into\_screen))  break  else:  print("\*屏幕尺寸\*\t输入非法字符，请重新输入！")  into\_screen = input("请输入屏幕尺寸（寸）：")  while True:  if into\_price.isdigit():  co.setPrice(int(into\_price))  break  else:  print("\*价格\*\t输入非法字符，请重新输入！")  into\_price = input("请输入价格：￥")  while True:  if into\_ram.isdigit():  co.setRam(int(into\_ram))  break  else:  print("\*内存\*\t输入非法字符，请重新输入！")  into\_ram = input("请输入内存(G)：")  while True:  if into\_standtime.isdigit():  co.setStandtime(int(into\_standtime))  break  else:  print("\*待机时间\*\t输入非法字符，请重新输入！")  into\_standtime = input("请输入待机时间(小时)：")  pc = '''  屏幕大小:%s寸  价格:￥%s  cpu型号: %s  内存大小:%sG  待机时长:%s小时  '''  print(pc % (self.\_\_screen, self.\_\_price, self.\_\_cpu, self.\_\_ram, self.\_\_standtime) )  print("\t\t该电脑可以打字，打游戏，看视频")  co = computer()  co.computer\_run() |

### 先构思面向对象版的中国工商银行系统