# **[1]**

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| **[소스코드]**  def totalprint(score\_list):  find=[]  rank=[]  iindex=[]  for i in range(len(name)):  find.append(grade[i])  rank.append(grade[i])  rank.sort(reverse = True)  for i in range(len(name)):  iindex.append(find.index(rank[i]))  i = 0  while True:  print("이름: {0} 과목: {1} 평균: {2}".format(name[iindex[i]],course[iindex[i]],grade[iindex[i]]))  i = i + 1  if i == score\_list:  break  #3-2번에서 정렬햇던 방법 더 응용해서 복잡하게 만드니까 나오기는 하는데...  #너무 어거지고... ㅠ 일단 성공...!  name = []  course = []  grade = []  while True:  print("성적을 입력하시겠습니까?(Y,N)",end = "")  dab = input()  if dab == "Y":  print("이름:",end = "")  a = input()  if name.count(a)>0:  b = name.index(a)  print("과목:",end = "")  d = '/' + input()  course[b] = course[b] + d  print("성적:",end = "")  c = int(input())  grade[b] = (grade[b] + c) / 2  continue  #이 이프문으로 하면 과목 2개까지는 평균 낼 수 있는데 3개부터는 안돼요 ㅠㅠ  #다른 방법은... ㅠ  name.append(a)  print("과목:",end = "")  course.append(input())  print("성적:",end = "")  grade.append(int(input()))  elif dab == "N" :  if len(name) == 0:  print("입력한 성적이 없습니다.")  break  else:  totalprint(len(name))  break |
| **[실행 결과]** |

# **[2]**

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| **[소스코드]**  class Product :  def \_\_init\_\_(self,name,price,stock):  self.name = name  self.price = price  self.stock = stock  self.su = 0  self.money = 0  def buy(self,num = 1):  if self.stock < num:  print("{0}의 판매할 재고 수량이 없음".format(self.name))  else:  print("{0}의 총 판매가격은 {1}원 구매하겠습니까(Y/N)?".format(self.name,num\*self.price), end = "")  dab = input()  if dab == "N":  pass  elif dab == "Y":  print("{0}제품 {1}개 총 {2}원에 판매하였습니다.".format(self.name,num,num\*self.price))  self.stock = self.stock - num  self.su = self.su + num  self.money = self.money + num\*self.price  def currentState(self):  print("제품명:{0} 단가:{1} 재고:{2}".format(self.name,self.price,self.stock))  def totalState(self):  print("제품명:{0} 총 판매 수량:{1} 총 판매 금액:{2}".format(self.name,self.su,self.money))  def rankTotalPrice(\*p\_list):  find=[]  rank=[]  for i in range(0,4,1):  find.append(product\_list[i].money)  rank.append(product\_list[i].money)  rank.sort(reverse = True)  one = find.index(rank[0])  two = find.index(rank[1])  three = find.index(rank[2])  four = find.index(rank[3])  print("1 : {0} / {1}". format(product\_list[one].name,rank[0]))  print("2 : {0} / {1}". format(product\_list[two].name,rank[1]))  print("3 : {0} / {1}". format(product\_list[three].name,rank[2]))  print("4 : {0} / {1}". format(product\_list[four].name,rank[3]))  #for i in range(0,4,1):  #print("{0} : {1}".format(i,rank[i]))  #위에 포문으로 하려햇는데 잘 안돼서 일일히 노가다로.. 길게 해서 순위별로는  #나왔는데.. 너무 길어져서 교수님은 어떻게 하셧는지 궁금합니다!  if \_\_name\_\_ == "\_\_main\_\_":  product\_list = [Product(name="연필", price=1000,stock = 10)  , Product(name="샤프", price=3000,stock = 5)  , Product(name="공책", price=2000,stock = 5)  , Product(name="볼펜", price=2000,stock = 5)]  print("#1"); product\_list[0].buy()  print("#2"); product\_list[0].buy()  print("#3"); product\_list[1].buy(10)  print("#4"); product\_list[2].buy(2)  print("#5"); product\_list[2].buy(1)  print("#6"); product\_list[3].buy(2)  print("#7")  for p in product\_list:  p.currentState()  p.totalState()  print()  print("#8")  rankTotalPrice(product\_list) |
| **[실행 결과]** |
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# **[3]**

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| **[소스코드]**  class Score :  ratio = {"mid":30, "fin":30, "hw":20, "att":20}  def \_\_init\_\_(self):  self.mid = 30  self.fin = 30  self.hw = 20  self.att = 20  def total(self) :  self.total = self.mid + self.fin + self.hw + self.att  return self.total  def grade(self):  if self.total>=90:  self.grade="A"  elif self.total>=80:  self.grade="B"  elif self.total>=70:  self.grade="C"  elif self.total>=60:  self.grade="D"  else:  self.grade="F"  return self.grade  def setScore(self,name,score,cri=100) :  if name=="mid":  self.mid=score\*(self.ratio["mid"]/cri)  elif name=="fin":  self.fin=score\*(self.ratio["fin"]/cri)  elif name=="hw":  self.hw=score\*(self.ratio["hw"]/cri)  elif name=="att":  self.att=score\*(self.ratio["att"]/cri)  def rank(s\_dic) :  dic={}  for k,v in s\_dic.items():  dic[v.total]=k  sort=sorted(dic.items(),reverse=True)  j=0  for i in range(0,3):  print("{0}: {1}".format(j+1,sort[i]))  j+=1  # 랭크에서 딕셔너리 안에 키랑 밸류 따로 포문으로 빼서 정렬하는게 잘 안돼서..  # 그냥 포문으로... ㅠ 순위는 정렬되지만 교수님이랑 형태가 다름  if \_\_name\_\_ == "\_\_main\_\_":  score\_list = {}  score\_list["김아영"] = Score()  score\_list["최미소"] = Score()  score\_list["윤선영"] = Score()  print("#1")  score\_list["김아영"].setScore("mid",70)  score\_list["김아영"].setScore("fin",80)  score\_list["김아영"].setScore("hw",100)  score\_list["김아영"].setScore("att",100)  score\_list["최미소"].setScore("mid",30,30)  score\_list["최미소"].setScore("fin",28,30)  score\_list["최미소"].setScore("hw",20,20)  score\_list["최미소"].setScore("att",20,20)  score\_list["윤선영"].setScore("mid",40,50)  score\_list["윤선영"].setScore("fin",20,50)  score\_list["윤선영"].setScore("hw",100)  score\_list["윤선영"].setScore("att",100)  print("#2")  for k,v in score\_list.items():  print("이름:{0} 총점:{1} 학점:{2}"  .format(k,v.total(),v.grade()))  print("#3")  rank(score\_list) |
| **[실행 결과]** |