编码：

import numpy as np  
import xlrd #引入xlrd模块  
import xlwt #引入xlwd模块  
  
def open\_excel(file):  
    try:  
        data = xlrd.open\_workbook(file) #打开excel文件  
        return data  
    except Exception as e:  
        print(str(e))  
  
def split\_age\_range(age):  
    """  
    将特征值年龄进行离散化为8个特征值  
    :param age: 年龄区间值  
    :return: 离散化后的特征  
    """  
    if age == 0:  
        return [1,0,0,0,0,0,0,0,0]  
    elif age == 1:  
        return [0,1,0,0,0,0,0,0,0]  
    elif age == 2:  
        return [0,0,1,0,0,0,0,0,0]  
    elif age == 3:  
        return [0,0,0,1,0,0,0,0,0]  
    elif age == 4:  
        return [0,0,0,0,1,0,0,0,0]  
    elif age == 5:  
        return [0,0,0,0,0,1,0,0,0]  
    elif age == 6:  
        return [0,0,0,0,0,0,1,0,0]  
    elif age == 7 or age == 8:  
        return [0,0,0,0,0,0,0,1,0]  
    # elif age == 8:  
    #     return [0,0,0,0,0,0,0,0,1]  
  
def split\_gender(gender):  
    """  
    将特征值性别进行离散化  
    :param gender:  
    :return: 返回离散化的特征  
    """  
    if gender == 0:  
        return [1,0,0]  
    elif gender == 1:  
        return [0,1,0]  
    elif gender == 2:  
        return [0,0,1]