

----- LAB 01 -----

All tasks are done as a single program.

```
In [ ]: import csv

def load_data(file_path, delimiter=','):
    with open(file_path, 'r') as file:
        # Detecting and removing empty lines at the top or bottom of the file.
        lines = [line.strip() for line in file if line.strip()]

    # Detecting and handling missing values in a column.
    data = []
    for line in lines:
        if delimiter == ',':
            values = line.split(',')
        elif delimiter == '|':
            values = line.split('|')
        else:
            values = line.split()

        # Handle missing values
        for i in range(len(values)):
            if values[i] == '':
                values[i] = None

        data.append(values)

    # Detecting and handling rows that do not match expectations for the rest of the
    expected_columns = ['Pregnancies', 'Glucose', 'BloodPressure', 'SkinThickness',
    for row in data:
        if len(row) != len(expected_columns):
            print("Row {} does not match expectations. Skipping...".format(row))
            data.remove(row)
    return data

file_path = 'diabetes.csv'
delimiter = ','
data = load_data(file_path, delimiter)

for row in data:
    print(row)
```

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['Pregnancies', 'Glucose', 'BloodPressure', 'SkinThickness', 'Insulin', 'BMI', 'DiabetesPedigreeFunction', 'Age', 'Outcome']
['6', '148', '72', '35', '0', '33.6', '0.627', '50', '1']
['1', '85', '66', '29', '0', '26.6', '0.351', '31', '0']
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['1', '89', '66', '23', '94', '28.1', '0.167', '21', '0']
['0', '137', '40', '35', '168', '43.1', '2.288', '33', '1']
['5', '116', '74', '0', '0', '25.6', '0.201', '30', '0']
['3', '78', '50', '32', '88', '31', '0.248', '26', '1']
['10', '115', '0', '0', '0', '35.3', '0.134', '29', '0']
['2', '197', '70', '45', '543', '30.5', '0.158', '53', '1']
['8', '125', '96', '0', '0', '0', '0.232', '54', '1']
['4', '110', '92', '0', '0', '37.6', '0.191', '30', '0']
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['5', '117', '92', '0', '0', '34.1', '0.337', '38', '0']
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['4', '173', '70', '14', '168', '29.7', '0.361', '33', '1']
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['1', '111', '94', '0', '0', '32.8', '0.265', '45', '0']  
['4', '112', '78', '40', '0', '39.4', '0.236', '38', '0']
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['1', '116', '78', '29', '180', '36.1', '0.496', '25', '0']
['0', '141', '84', '26', '0', '32.4', '0.433', '22', '0']
['2', '175', '88', '0', '0', '22.9', '0.326', '22', '0']
['2', '92', '52', '0', '0', '30.1', '0.141', '22', '0']
['3', '130', '78', '23', '79', '28.4', '0.323', '34', '1']
['8', '120', '86', '0', '0', '28.4', '0.259', '22', '1']
['2', '174', '88', '37', '120', '44.5', '0.646', '24', '1']
['2', '106', '56', '27', '165', '29', '0.426', '22', '0']
['2', '105', '75', '0', '0', '23.3', '0.56', '53', '0']
['4', '95', '60', '32', '0', '35.4', '0.284', '28', '0']
['0', '126', '86', '27', '120', '27.4', '0.515', '21', '0']
['8', '65', '72', '23', '0', '32', '0.6', '42', '0']
['2', '99', '60', '17', '160', '36.6', '0.453', '21', '0']
['1', '102', '74', '0', '0', '39.5', '0.293', '42', '1']
['11', '120', '80', '37', '150', '42.3', '0.785', '48', '1']
['3', '102', '44', '20', '94', '30.8', '0.4', '26', '0']
['1', '109', '58', '18', '116', '28.5', '0.219', '22', '0']
['9', '140', '94', '0', '0', '32.7', '0.734', '45', '1']
['13', '153', '88', '37', '140', '40.6', '1.174', '39', '0']
['12', '100', '84', '33', '105', '30', '0.488', '46', '0']
['1', '147', '94', '41', '0', '49.3', '0.358', '27', '1']
['1', '81', '74', '41', '57', '46.3', '1.096', '32', '0']
['3', '187', '70', '22', '200', '36.4', '0.408', '36', '1']
['6', '162', '62', '0', '0', '24.3', '0.178', '50', '1']
['4', '136', '70', '0', '0', '31.2', '1.182', '22', '1']
['1', '121', '78', '39', '74', '39', '0.261', '28', '0']
['3', '108', '62', '24', '0', '26', '0.223', '25', '0']
['0', '181', '88', '44', '510', '43.3', '0.222', '26', '1']
['8', '154', '78', '32', '0', '32.4', '0.443', '45', '1']
['1', '128', '88', '39', '110', '36.5', '1.057', '37', '1']
['7', '137', '90', '41', '0', '32', '0.391', '39', '0']
['0', '123', '72', '0', '0', '36.3', '0.258', '52', '1']
['1', '106', '76', '0', '0', '37.5', '0.197', '26', '0']
['6', '190', '92', '0', '0', '35.5', '0.278', '66', '1']
['2', '88', '58', '26', '16', '28.4', '0.766', '22', '0']
['9', '170', '74', '31', '0', '44', '0.403', '43', '1']
['9', '89', '62', '0', '0', '22.5', '0.142', '33', '0']
['10', '101', '76', '48', '180', '32.9', '0.171', '63', '0']
['2', '122', '70', '27', '0', '36.8', '0.34', '27', '0']
['5', '121', '72', '23', '112', '26.2', '0.245', '30', '0']
['1', '126', '60', '0', '0', '30.1', '0.349', '47', '1']
['1', '93', '70', '31', '0', '30.4', '0.315', '23', '0']
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