Assignment Day 11
Correlation

H0 There is no signifant correlation between Attrition and Monthly income.

H1 There is signifant correlation between Attrition and Monthly income.

```
In [64]: import matplotlib.pyplot as plt

In [65]: plt.scatter(dataset1.Attrition,dataset1.MonthlyIncome)
Out[65]: <matplotlib.collections.PathCollection at 0x2a96f86e788>

In [66]: stats,p=pearsonr(dataset1.Attrition,dataset1.MonthlyIncome)

In [67]: print(stats,p)
-0.031176281698115007 0.03842748490600132

In [68]:
```

Here P value is less then 0.05 hence H0 is rejected therefore There is signifant correlation between Attrition and Monthly income.

```
In [80]: co['Attrition']
Out[80]:
Age                        -0.159205
Attrition                   1.000000
DistanceFromHome           -0.009730
Education                  -0.015111
EmployeeCount                    NaN
EmployeeID                 -0.004729
JobLevel                   -0.010290
MonthlyIncome              -0.031176
NumCompaniesWorked          0.042345
PercentSalaryHike           0.032533
StandardHours                    NaN
StockOptionLevel           -0.006839
TotalWorkingYears          -0.170338
TrainingTimesLastYear      -0.049431
YearsAtCompany             -0.134392
YearsSinceLastPromotion    -0.033019
YearsWithCurrManager       -0.156199
Name: Attrition, dtype: float64

In [81]:
```