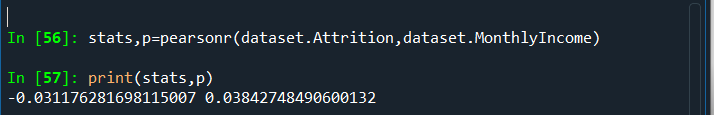
Finding Correlation

**CASE 1:**

Formulation of Hypothesis

H0🡪There is no significant correlation between Attrition and MonthlyIncome

Ha🡪 There is significant correlation between Attrition and MonthlyIncome



Here the **p value is less than 0.05** so **Null Hypothesis** is **rejected** and **Alternative Hypothesis is accepted**

**R=-0.03 there is low negative correlation** **between Attrition and MonthlyIncome**

So we can conclude

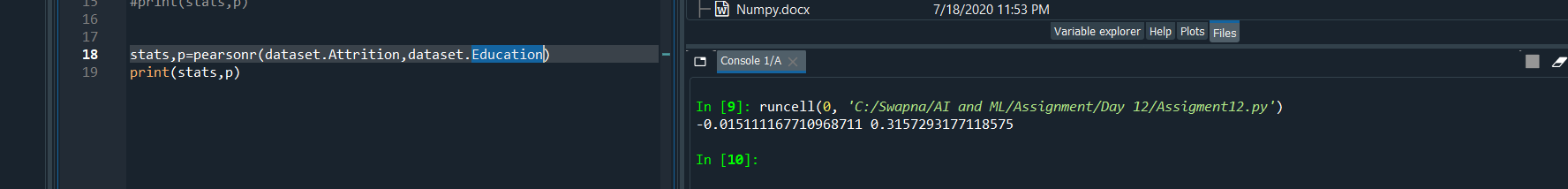
**There is significant correlation between Attrition and MonthlyIncome**

**CASE2:**

Formulation of Hypothesis

H0🡪There is no significant correlation between Attrition and Education

Ha🡪 There is significant correlation between Attrition and Education



Here the **p value is grater than 0.05** so **Null Hypothesis** is **accepted** and **Alternative Hypothesis is rejected**

**R=-0.15 there is low –ve correlation between Attrition and Education**

So we can conclude

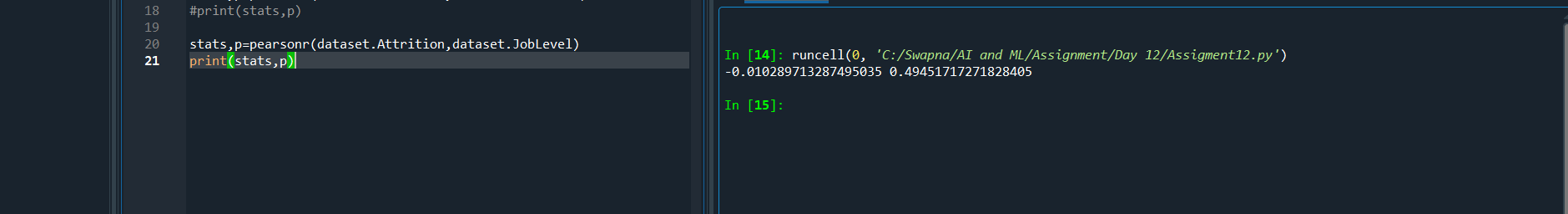
**There is no significant correlation between Attrition and Education**

**CASE3:**

Formulation of Hypothesis

H0🡪There is no significant correlation between Attrition and JobLevel

Ha🡪 There is significant correlation between Attrition and JobLevel



Here the **p value is grater than 0.05** so **Null Hypothesis** is **accepted** and **Alternative Hypothesis is rejected**

**R=-0.010 there is low –ve correlation between Attrition and JobLevel**

So we can conclude

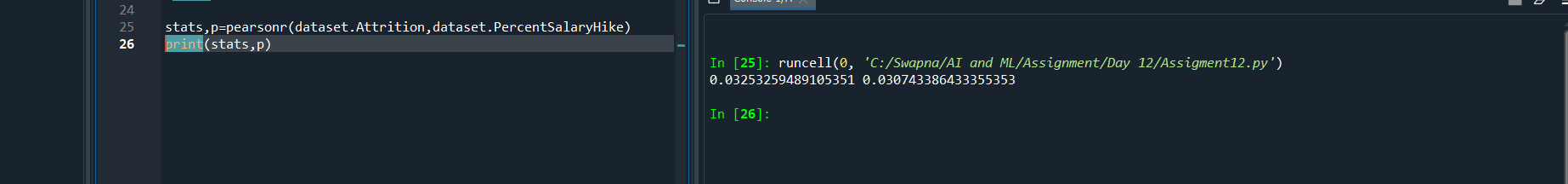
**There is no significant correlation between Attrition and JobLevel**

**CASE4:**

Formulation of Hypothesis

H0🡪There is no significant correlation between Attrition and PercentSalaryHike

Ha🡪 There is significant correlation between Attrition and PercentSalaryHike



Here the **p value is less than 0.05** so **Null Hypothesis** is **rejected** and **Alternative Hypothesis is accepted**

**R=0.0325 there is low +ve correlation between Attrition and PercentSalaryHike**

So we can conclude

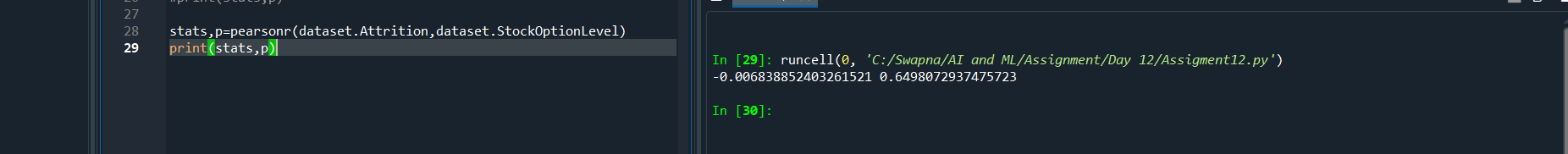
**There is significant correlation between Attrition and PercentSalaryHike**

**CASE5:**

Formulation of Hypothesis

H0🡪There is no significant correlation between Attrition and StockOptionLevel

Ha🡪 There is significant correlation between Attrition and StockOptionLevel



Here the **p value is grater than 0.05** so **Null Hypothesis** is **accepted** and **Alternative Hypothesis is rejected**

**R=-0.0068 there is low -ve correlation between Attrition and StockOptionLevel**

So we can conclude

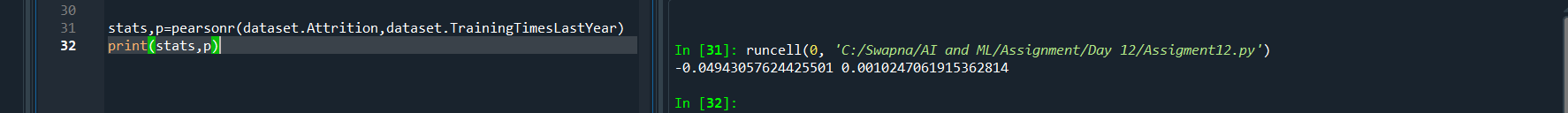
**There is no significant correlation between Attrition and StockOptionLevel**

**CASE6:**

Formulation of Hypothesis

H0🡪There is no significant correlation between Attrition and TrainingTimesLastYear

Ha🡪 There is significant correlation between Attrition and TrainingTimesLastYear



Here the **p value is less than 0.05** so **Null Hypothesis** is **rejected** and **Alternative Hypothesis is accepted**

**R=-0.0494 there is low -ve correlation between Attrition and TrainingTimesLastYear**

So we can conclude

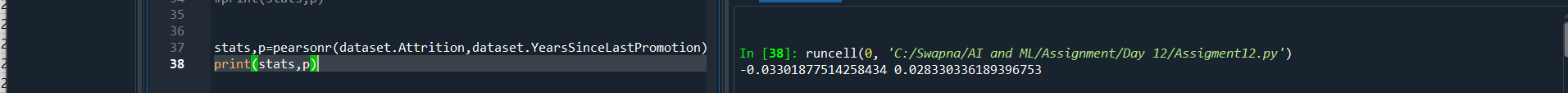
**There is significant correlation between Attrition and TrainingTimesLastYear**

**CASE6:**

Formulation of Hypothesis

H0🡪There is no significant correlation between Attrition and YearsSinceLastPromotion

Ha🡪 There is significant correlation between Attrition and YearsSinceLastPromotion



Here the **p value is less than 0.05** so **Null Hypothesis** is **rejected** and **Alternative Hypothesis is accepted**

**R=-0.033 there is low -ve correlation between Attrition and YearsSinceLastPromotion**

So we can conclude

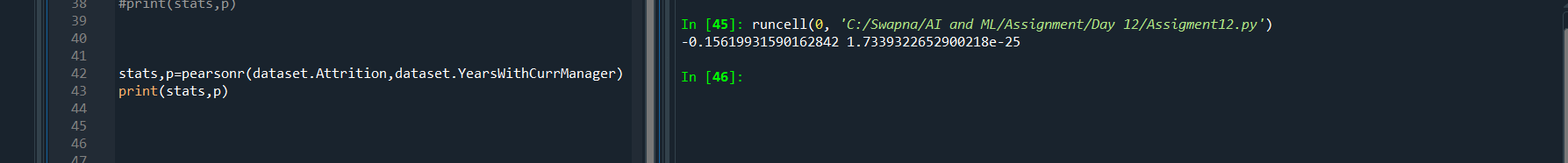
**There is significant correlation between Attrition and YearsSinceLastPromotion**

**CASE7:**

Formulation of Hypothesis

H0🡪There is no significant correlation between Attrition and YearsWithCurrManager

Ha🡪 There is significant correlation between Attrition and YearsWithCurrManager



Here the **p value is less than 0.05** so **Null Hypothesis** is **rejected** and **Alternative Hypothesis is accepted**

**R=-0.156 there is low -ve correlation between Attrition and YearsWithCurrManager**

So we can conclude

**There is significant correlation between Attrition and YearsWithCurrManager**

**CASE 8:**

Formulation of Hypothesis

H0🡪There is no significant correlation between Attrition and TotalWorkingYears

Ha🡪 There is significant correlation between Attrition and TotalWorkingYears



Here the **p value is less than 0.05** so **Null Hypothesis** is **rejected** and **Alternative Hypothesis is accepted**

**R=-0.169 there is low –ve correlation between Attrition and TotalWorkingYears**

So we can conclude

**There is significant correlation between Attrition and TotalWorkingYears**

**CASE 9:**

Formulation of Hypothesis

H0🡪There is no significant correlation between Attrition and NumCompaniesWorked

Ha🡪 There is significant correlation between Attrition and NumCompaniesWorked



Here the **p value is less than 0.05** so **Null Hypothesis** is **rejected** and **Alternative Hypothesis is accepted**

**R=0.042 there is low +ve correlation between Attrition and NumCompaniesWorked**

So we can conclude

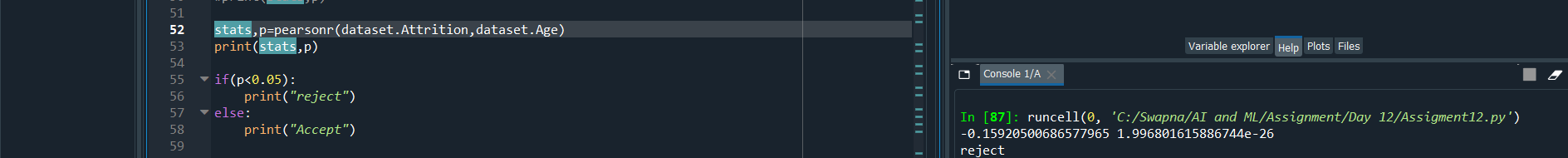
**There is no significant correlation between Attrition and NumCompaniesWorked**

**CASE 10:**

Formulation of Hypothesis

H0🡪There is no significant correlation between Attrition and Age

Ha🡪 There is significant correlation between Attrition and Age



Here the **p value is less than 0.05** so **Null Hypothesis** is **rejected** and **Alternative Hypothesis is accepted**

**R=-0.159 there is low -ve correlation between Attrition and Age**

So we can conclude

**There is significant correlation between Attrition and Age**

**CASE11:**

Formulation of Hypothesis

H0🡪There is no significant correlation between Attrition and DistanceFromHome

Ha🡪 There is significant correlation between Attrition and DistanceFromHome



Here the **p value is greater than 0.05** so **Null Hypothesis** is **accepted** and **Alternative Hypothesis is rejected**

**R=-0.009 there is low –ve correlation between Attrition and DistanceFromHome**

So we can conclude

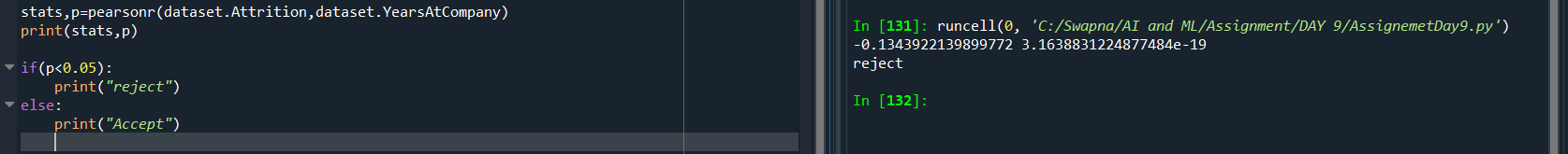
**There is no significant correlation between Attrition and DistanceFromHome**

**CASE12:**

Formulation of Hypothesis

H0🡪There is no significant correlation between Attrition and YearsAtCompany

Ha🡪 There is significant correlation between Attrition and YearsAtCompany



**R=-0.134 there is low –ve correlation between Attrition and YearsAtCompany**

Here the **p value is less than 0.05** so **Null Hypothesis** is **rejected** and **Alternative Hypothesis is accepted**

So we can conclude

**There is significant correlation between Attrition and YearsAtCompany**

**Inference:**

**Based on the above analysis there are multiple factor from employee attrition so based on this they have to do some modifications in below arears.**

1. **MonthlyIncome**
2. **PercentSalaryHike**
3. **TrainingTimesLastYear**
4. **YearsSinceLastPromotion**
5. **YearsWithCurrManager**
6. **TotalWorkingYears**
7. **NumCompaniesWorked**
8. **Age**
9. **YearsAtCompany**