Chi square test:

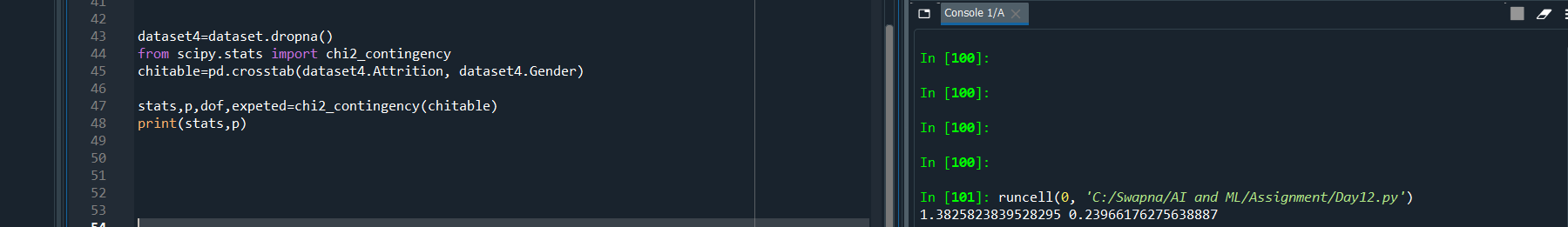
**CASE 1:**

Variables: 1. Attrition –(YES AND NO)

2. Gender—(MALE AND FEMALE)

H0🡪There is no dependency between Attrition and MonthlyIncome

Ha🡪 There is dependency between Attrition and MonthlyIncome



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

So we can conclude

**There is no dependency between Attrition and MonthlyIncome**

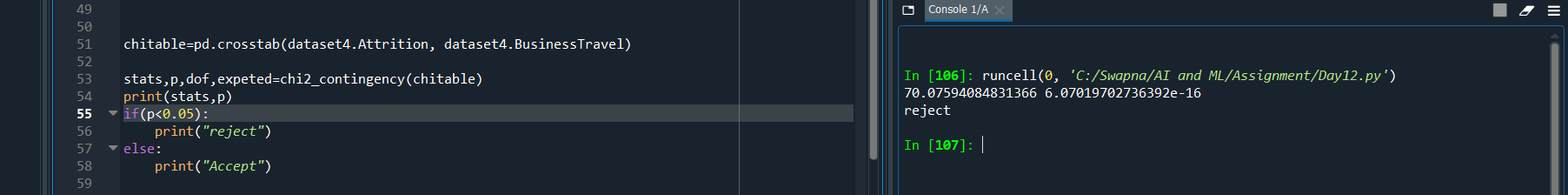
**CASE 2:**

Variables: 1. Attrition –(YES AND NO)

2. BusinessTravel—( Travel\_Rarely AND Travel\_Frequently, Non-Travel)

H0🡪There is no dependency between Attrition and BusinessTravel

Ha🡪 There is dependency between Attrition and BusinessTravel



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 dependency between Attrition and BusinessTravel**

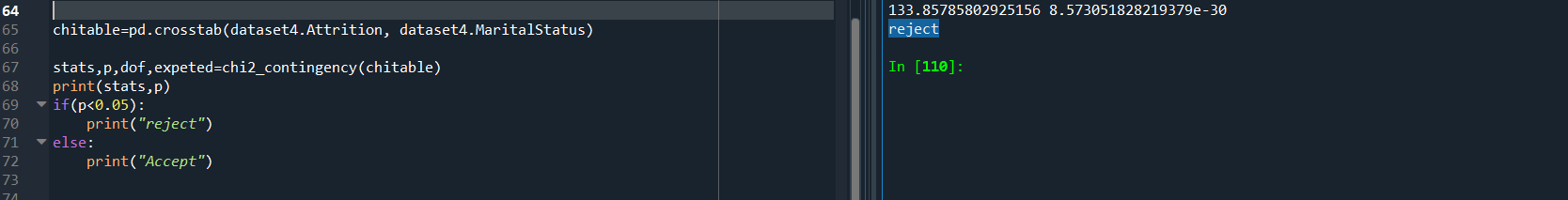
**CASE 3:**

Variables: 1. Attrition –(YES AND NO)

2. MaritalStatus—( Married AND Single)

H0🡪There is no dependency between Attrition and MaritalStatus

Ha🡪 There is dependency between Attrition and MaritalStatus



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 dependency between Attrition and MaritalStatus**

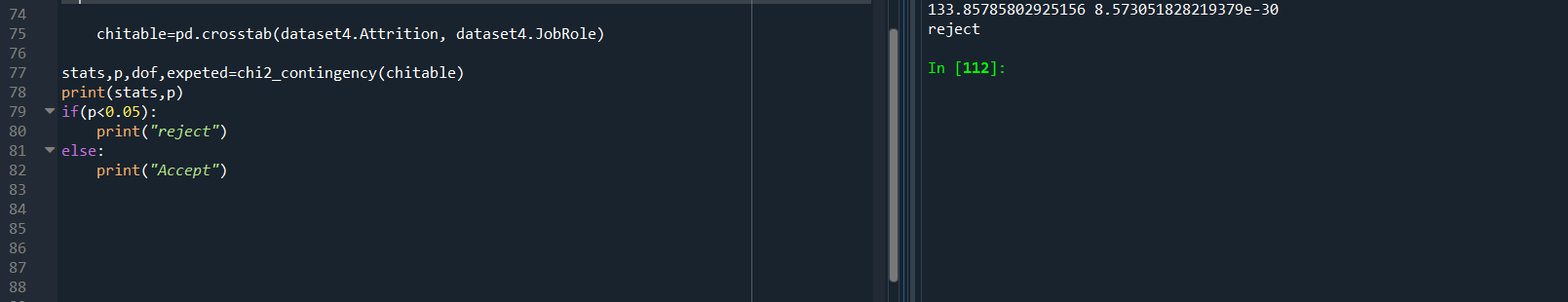
**CASE 4:**

Variables: 1. Attrition –(YES AND NO)

2. JobRole—( Healthcare Representative, Research Scientist, Sales Executive, Human Resources)

H0🡪There is no dependency between Attrition and JobRole

Ha🡪 There is dependency between Attrition and JobRole



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 dependency between Attrition and JobRole**

**CASE 5:**

Variables: 1. Attrition –(YES AND NO)

2. Department —( Research & Development,sales)

H0🡪There is no dependency between Attrition and Department

Ha🡪 There is dependency between Attrition and Department



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 dependency between Attrition and Department**