In [1]:

```python
## How to select features using chi-squared in Python
def Snippet_126():
    print()
    print(format('How to select features using chi-squared in Python','*^82'))
    import warnings
    warnings.filterwarnings("ignore")
    # load libraries
    from sklearn.datasets import load_iris
    from sklearn.feature_selection import SelectKBest
    from sklearn.feature_selection import chi2
    # Load iris data
    iris = load_iris()
    # Create features and target
    X = iris.data; print(); print(X)
    y = iris.target; print(); print(y)
    # Convert to categorical data by converting data to integers
    X = X.astype(int)
    # Select two features with highest chi-squared statistics
    chi2_selector = SelectKBest(chi2, k=2)
    X_kbest = chi2_selector.fit_transform(X, y)
    print(); print(X_kbest)
    # Show results
    print()
    print('Original number of features:', X.shape)
    print('Reduced number of features:', X_kbest.shape)
Snippet_126()
```

```
****************How to select features using chi-squared in Python****************

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Original number of features: (150, 4)
Reduced number of features: (150, 2)
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In [ ]: