# Explanation of the Code

This Python script performs a machine learning task using the RandomForestClassifier from Scikit-Learn. The goal is to predict whether passengers were transported based on their age and VIP status.

## Libraries Used

The following libraries are used in the script:  
- numpy: Provides numerical operations.  
- pandas: Used for data manipulation and analysis.  
- RandomForestClassifier: A machine learning model for classification tasks.  
- LabelEncoder: Converts categorical values into numerical form.

## Load the Data

The training dataset is loaded using pandas, and missing values are checked.

## Handling Missing Values

Missing values in the 'Age' column are filled with the mean age to ensure no data is lost.

## Encoding

Categorical features such as 'VIP' and 'Transported' are converted into numerical form using LabelEncoder.

## Preparing Training Data

Features 'Age' and 'VIP' are selected as inputs (X), while 'Transported' is the target variable (Y).

## Training the Model

A RandomForestClassifier model is initialized and trained using the prepared dataset.

## Loading the Test Data

The test dataset is loaded and checked for missing values.

## Preparing the Test Data

The test dataset undergoes similar preprocessing, ensuring missing values are handled and categorical features are encoded.

## Making Predictions

The trained model is used to predict whether passengers in the test dataset were transported.