```
import pandas as pd
from sklearn.tree import DecisionTreeClassifier

data = pd.read_csv('/content/drive/MyDrive/archive
(5)/ecommerce_product_dataset.csv')

xv_train = data[['Sales','ProductID']]
y_train = data['Price']

from sklearn.tree import DecisionTreeRegressor
DTR = DecisionTreeRegressor()
DTR.fit(x_train, y_train)

DecisionTreeRegressor()

# prompt: creaye a code for the above dataset for predicting price
using sales and productid based on user input

def predict_price(sales, product_id):
  """
  Predicts the price of a product based on its sales and product ID.

  Args:
    sales: The number of units sold.
    product_id: The ID of the product.

  Returns:
    The predicted price of the product.
  """

  # Create a DataFrame with the user input
  user_input = pd.DataFrame({
    'Sales': [sales],
    'ProductID': [product_id]
  })

  # Predict the price
  predicted_price = DTR.predict(user_input)[0]

  return predicted_price

# Get user input
sales = int(input("Enter the number of units sold1: "))
product_id = int(input("Enter the product ID: "))

# Predict the price
predicted_price = predict_price(sales, product_id)

# Print the predicted price
print(f"The predicted price of the product is {predicted_price}")
```

```
Enter the number of units sold1: 466
Enter the product ID: 1
The predicted price of the product is 400.31
```