```
import pandas as pd
import numpy as np
from sklearn.model selection import train test split
from sklearn.neighbors import KNeighborsClassifier
from sklearn.metrics import accuracy score
import matplotlib.pyplot as plt
data=pd.read csv('/content/drive/MyDrive/archive
(5)/ecommerce product dataset.csv')
df=pd.DataFrame(data)
from google.colab import drive
drive.mount('/content/drive')
Mounted at /content/drive
x = df[['Sales','ProductID']]
y = df['Price']
import pandas as pd
import numpy as np
from sklearn.model selection import train test split
from sklearn.neighbors import KNeighborsRegressor # Use
KNeighborsRegressor for regression
from sklearn.metrics import accuracy score
import matplotlib.pyplot as plt
# Load the data (assuming this part is already done)
data = pd.read csv('/content/drive/MyDrive/archive
(5)/ecommerce product dataset.csv')
df = pd.DataFrame(data)
# Select features and target variable
x = df[['Sales', 'ProductID']]
v = df['Price']
# Create and fit the KNeighborsRegressor model
k = 3
knn = KNeighborsRegressor(n neighbors=k) # Change to
KNeighborsRegressor
knn.fit(x, y)
KNeighborsRegressor(n neighbors=3)
# prompt: create a cose for printing the output for predicting price
using sales and prouductid as per 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 sales for the product.
    product id: The ID of the product.
   The predicted price of the product.
  input data = np.array([[sales, product id]])
  predicted price = knn.predict(input data)[0]
  return predicted price
# Get user input for sales and product ID
sales = float(input("Enter the number of sales: "))
product id = int(input("Enter the product ID: "))
# Predict the price
predicted_price = predict_price(sales, product_id)
# Print the predicted price
print(f"Predicted price: {predicted price}")
Enter the sales value: 466
Enter the product ID: 1
Predicted price of the product: 252.456666666668
/usr/local/lib/python3.10/dist-packages/sklearn/base.py:439:
UserWarning: X does not have valid feature names, but
KNeighborsRegressor was fitted with feature names
 warnings.warn(
```