In [5]:
```python
import pandas as pd
```

In [6]:
```python
import matplotlib.pyplot as plt
```

In [ ]:
```python
#Loading Data
```

In [6]:
```python
import matplotlib.pyplot as plt
```

In [7]:
```python
customers = pd.read_csv("Customers.csv")
```

In [8]:
```python
products = pd.read_csv("Products.csv")
```

In [9]:
```python
transactions = pd.read_csv("Transactions.csv")
```

In [10]:
```python
#Merging Transition with Product information
```

In [11]:
```python
transactions = transactions.merge(products, on="ProductID")
```

In [12]:
```python
# Basic EDA
```

In [13]:
```python
print("Missing Values:")
```

```
Missing Values:
```

In [14]:
```python
print(customers.isnull().sum())
```

```
CustomerID      0
CustomerName    0
Region          0
SignupDate      0
dtype: int64
```

In [15]:
```python
print(transactions.isnull().sum())
```

```
TransactionID     0
CustomerID        0
ProductID         0
TransactionDate   0
Quantity          0
TotalValue        0
Price_x           0
ProductName       0
Category          0
Price_y           0
dtype: int64
```

In [16]:
```python
# Example Visualization: Sales by Region
```

In [18]:
```python
sales_by_region = transactions.merge(customers, on="CustomerID") \
    .groupby("Region")["TotalValue"].sum().sort_values()
```

In [21]:
```python
sales_by_region.plot(kind="bar", title="Total Sales by Region")
plt.show()
```


Total Sales by Region