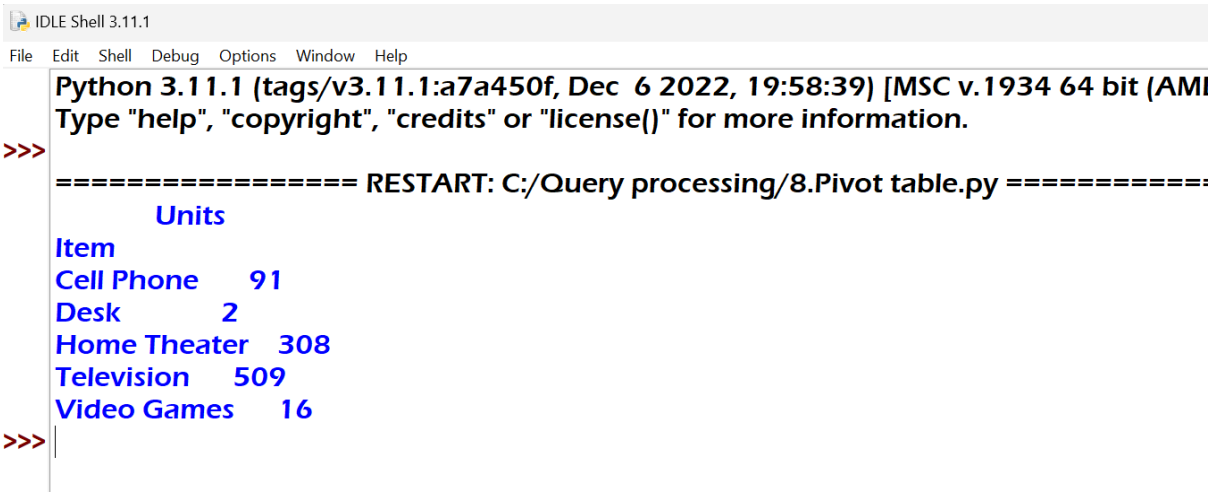
8. Write a Pandas program to create a Pivot table and find the item wise unit sold. .(refer sales_data table)

CODE :

```
8.Pivot table.py - C:/Query processing/8.Pivot table.py (3.11.1)
File  Edit  Format  Run  Options  Window  Help
import pandas as pd
data = {
   "OrderDate": [
      "1-6-18", "1-23-18", "2-9-18", "2-26-18", "3-15-18",
      "4-1-18", "4-18-18", "5-5-18", "5-22-18", "6-8-18",
      "6-25-18", "7-12-18", "7-29-18", "8-15-18", "9-1-18",
      "9-18-18", "10-5-18", "10-22-18"
   ],
   "Region": [
      "East", "Central", "Central", "Central", "West",
      "East", "Central", "Central", "West", "East",
      "Central", "East", "East", "East", "Central",
      "East", "East", "East"
   ],
   "Manager": [
      "Martha", "Hermann", "Hermann", "Timothy", "Timothy",
      "Martha", "Martha", "Hermann", "Douglas", "Martha",
      "Hermann", "Martha", "Douglas", "Martha", "Douglas",
      "Martha", "Hermann", "Martha"
   ],
   "SalesMan": [
      "Alexander", "Shelli", "Luis", "David", "Stephen",
      "Alexander", "Steven", "Luis", "Michael", "Alexander",
      "Sigal", "Diana", "Karen", "Alexander", "John",
      "Alexander", "Sigal", "Alexander"
   ],

   "Item": [
      "Television", "Home Theater", "Television", "Cell Phone", "Television",
      "Home Theater", "Television", "Television", "Television", "Home Theater",
      "Television", "Home Theater", "Home Theater", "Television", "Desk",
      "Video Games", "Home Theater", "Cell Phone"
   ],
   "Units": [
      95, 50, 36, 27, 56,
      60, 75, 90, 32, 60,
      90, 29, 81, 35, 2,
      16, 28, 64
   ],
   "Unit_price": [
      1198.00, 500.00, 1198.00, 225.00, 1198.00,
      500.00, 1198.00, 1198.00, 1198.00, 500.00,
      1198.00, 500.00, 500.00, 1198.00, 125.00,
      58.50, 500.00, 225.00
   ],
   "Sale_amt": [
      113810.00, 25000.00, 43128.00, 6075.00, 67088.00,
      30000.00, 89850.00, 107820.00, 38336.00, 30000.00,
      107820.00, 14500.00, 40500.00, 41930.00, 250.00,
      936.00, 14000.00, 14400.00
   ]
}
df = pd.DataFrame(data)
pivot_table = pd.pivot_table(df, values='Units', index='Item', aggfunc='sum')
print(pivot_table)
```

OUTPUT:


IDLE Shell 3.11.1
File Edit Shell Debug Options Window Help
Python 3.11.1 (tags/v3.11.1:a7a450f, Dec 6 2022, 19:58:39) [MSC v.1934 64 bit (AMI
Type "help", "copyright", "credits" or "license()" for more information.
>>>
========== RESTART: C:/Query processing/8.Pivot table.py ==========
Units
Item
Cell Phone 91
Desk 2
Home Theater 308
Television 509
Video Games 16
>>>