What is HTML?

```
<html>

<head>
    <title>My First Web Page</title>
</head>

<body>
    <h1>My First Web Page</h1>
    <p><b>Hello World Wide Web!</b></p>
    <p><i>Hello World Wide Web!</i></p>
    <p><u>Hello World Wide Web!</u></p>
    <p>This is my first web page.</p>
    <p>HTML tags can give <b><i>various</i></b>
    <u>looks and format</u> to the content of this web page.</p>
</body>

</html>
```

Web Scraping

Products.json - Notepad

File Edit Format View Help


```
{
  "ProductDetails": {
    "Products": [
      {
        "Product": "Baleno",
        "Q1Sales": "6000",
        "Q2Sales": "5000",
        "Q3Sales": "7000",
        "Q4Sales": "5500"
      },
      {
         "Product": "i20",
        "Q1Sales": "5000",
        "Q2Sales": "6000",
        "Q3Sales": "7000",
        "Q4Sales": "8500"
      },
      {
        "Product": "Ford Figo",
        "Q1Sales": "8000",
        "Q2Sales": "5000",
        "Q3Sales": "3000",
        "Q4Sales": "4500"
      },
```

Practical Usage

- For Research
- For Business

BeautifulSoup

```python
import random

guess = eval(input("Enter a three digit number: "))
guessD3 = str(guess % 10)
guessD2 = str((guess // 10) % 10)
guessD1 = str(guess // 100)

number = random.randrange(100, 1000)
numberD3 = str(number % 10)
numberD2 = str((number // 10) % 10)
numberD1 = str(number // 100)

print("The lottery number is", number)

if number == guess:
    print("You have won $ 10, 000.")

elif number == int(guessD1 + guessD3 + guessD2) or number == int(guessD2 + guessD1 + guessD3) \
    or number == int(guessD2 + guessD3 + guessD1) or number == int(guessD3 + guessD1 + guessD2) \
    or number == int(guessD3 + guessD2 + guessD1):
    print("You have won $ 3, 000.")

else:
    string = ""
    if guessD1 == numberD1 or guessD1 == numberD2 or guessD1 == numberD3:
        string += guessD1
    if guessD2 == numberD1 or guessD2 == numberD2 or guessD2 == numberD3:
        string += guessD2
    if guessD3 == numberD1 or guessD3 == numberD2 or guessD3 == numberD3:
        string += guessD3

    if string == "":
        print("You loose.")
    else:
        stringLastDigit = str(int(string) % 10)
        if string == stringLastDigit or string == 2 * stringLastDigit or string == 3 * stringLastDigit:
            print("You have won $ 1,000")
```

(Import BeautifulSoup)

```python
def add_global():
    global x
    print ("Value of x in add_global is ",x)
    x += 1
    return None
def sub_global():
    global x
    print ("Value of x in sub_global is ",x)
    x -= 1
    return None

x=0
add_global()
print(x)
sub_global()
print(x)
```

Thank You