I am starting a new project, **'e-Pragya'**. Basically, I will be diving into the world of transformers. Much of my motive is research and understanding more than application alone.

I am building **a** generative model that writes like I do. I am **an all-season** writer. There is a unique pattern in my writing; there are several nuanced styles which differentiate my writing from others.

I cannot specifically call out what my writing style is, and this is where **AI**, especially neural networks, comes in, the numerous links of neurons trying to write like I do, doing their best to capture the nuanced patterns of my **writing** and storing them in the weights of the network.

I have always been fascinated by neural networks, particularly by their capacity to incorporate the nuances of patterns that humans would never be able to explicitly pull out.

This time, with **Leapfrog**, I will publicly share my journey.

Okay, it's the first day, so let me set the tone. So, we have a computer that basically can do logical and arithmetic jobs for us. Our motive with this finite resource is to develop a framework (this is key). We are not finding the patterns; we are making a framework that is able to **capture** it from the language input.

So, let's not complicate too much and start with this basic problem: that language is an abstract construct. There is no reason why apples are called apples. Apart from basic grammar, language has developed from the practice of abstract words and their combinations. But our resource: the computer understands in numbers.

So, the first problem is to make computers understand our abstract language.

```
torch.Size([1115394]) torch.int64
tensor([18, 47, 56, 57, 58,  1, 15, 47, 58, 47, 64, 43, 52, 10,  0, 14, 43, 44,
        53, 56, 43,  1, 61, 43,  1, 54, 56, 53, 41, 43, 43, 42,  1, 39, 52, 63,
         1, 44, 59, 56, 58, 46, 43, 56,  6,  1, 46, 43, 39, 56,  1, 51, 43,  1,
        57, 54, 43, 39, 49,  8,  0,  0, 13, 50, 50, 10,  0, 31, 54, 43, 39, 49,
         6,  1, 57, 54, 43, 39, 49,  8,  0,  0, 18, 47, 56, 57, 58,  1, 15, 47,
        58, 47, 64, 43, 52, 10,  0, 37, 53, 59,  1, 39, 56, 43,  1, 39, 50, 50,
         1, 56, 43, 57, 53, 50, 60, 43, 42,  1, 56, 39, 58, 46, 43, 56,  1, 58,
        53,  1, 42, 47, 43,  1, 58, 46, 39, 52,  1, 58, 53,  1, 44, 39, 51, 47,
        57, 46, 12,  0,  0, 13, 50, 50, 10,  0, 30, 43, 57, 53, 50, 60, 43, 42,
         8,  1, 56, 43, 57, 53, 50, 60, 43, 42,  8,  0,  0, 18, 47, 56, 57, 58,
         1, 15, 47, 58, 47, 64, 43, 52, 10,  0, 18, 47, 56, 57, 58,  6,  1, 63,
        53, 59,  1, 49, 52, 53, 61,  1, 15, 39, 47, 59, 57,  1, 25, 39, 56, 41,
        47, 59, 57,  1, 47, 57,  1, 41, 46, 47, 43, 44,  1, 43, 52, 43, 51, 63,
         1, 58, 53,  1, 58, 46, 43,  1, 54, 43, 53, 54, 50, 43,  8,  0,  0, 13,
        50, 50, 10,  0, 35, 43,  1, 49, 52, 53, 61,  5, 58,  6,  1, 61, 43,  1,
        49, 52, 53, 61,  5, 58,  8,  0,  0, 18, 47, 56, 57, 58,  1, 15, 47, 58,
        47, 64, 43, 52, 10,  0, 24, 43, 58,  1, 59, 57,  1, 49, 47, 50, 50,  1,
        46, 47, 51,  6,  1, 39, 52, 42,  1, 61, 43,  5, 50, 50,  1, 46, 39, 60,
        43,  1, 41, 53, 56, 52,  1, 39, 58,  1, 53, 59, 56,  1, 53, 61, 52,  1,
        54, 56, 47, 41, 43,  8,  0, 21, 57,  5, 58,  1, 39,  1, 60, 43, 56, 42,
        47, 41, 58, 12,  0,  0, 13, 50, 50, 10,  0, 26, 53,  1, 51, 53, 56, 43,
         1, 58, 39, 50, 49, 47, 52, 45,  1, 53, 52,  5, 58, 11,  1, 50, 43, 58,
```

The numbers in the image are nothing but the representation of my abstract notes, wait for day 2 for how I was able to represent abstract words in numbers.