Ans to the gues no: 3

The update and reset gate of GRU are used to solve the vanishing gradient problem of RNN.

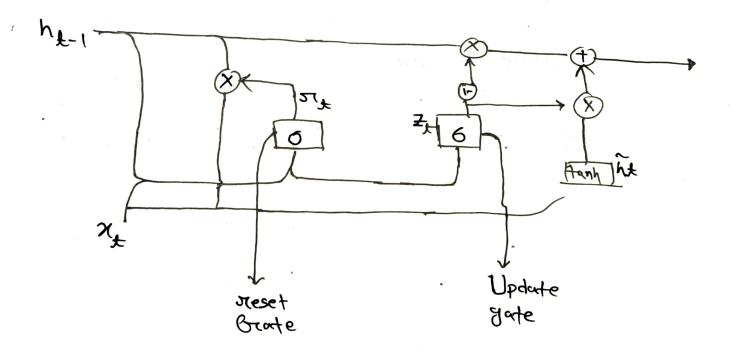
Upsd

update gate determines the amount of information needs to be passed from previous etep to layer to next layer. It is similar to output gate in LSTM

Reset gate is used to decide how much of previous information needs to Planget from the model. It is Similar & to forget and input gate of LSTM

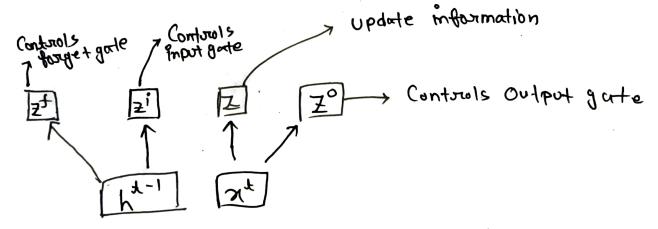
Work flow of GRU

In GRU, we combine the input and forget get to Use as single update gate



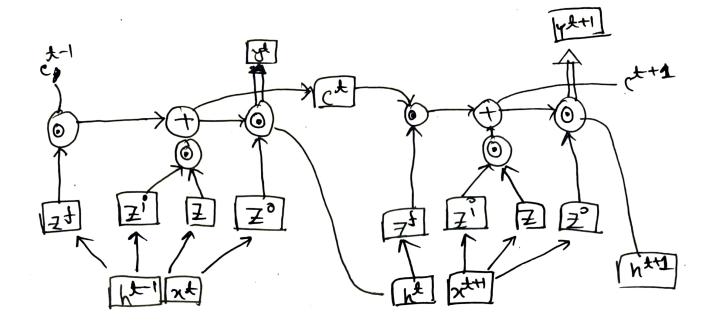
GRU does not need cell layer. to pass values salong the next Layer

Work Flow of LSTM



These matorix co

The computation of these matrices should be done concurrently



LSTM Meeds cell layer to pass values along with next layer.

Reasons behind the faster feature of GRU con in compare to RNN:

- 1. GIRU uses less training parameters which encibles it work to work in less memory. The concept of less memory usage makes it faster than RNN.
- 2. Giru is simple in which makes it easier to modify. On the contrary, RMM have feedback loops in reconsient layers for which it becomes difficult to modify.