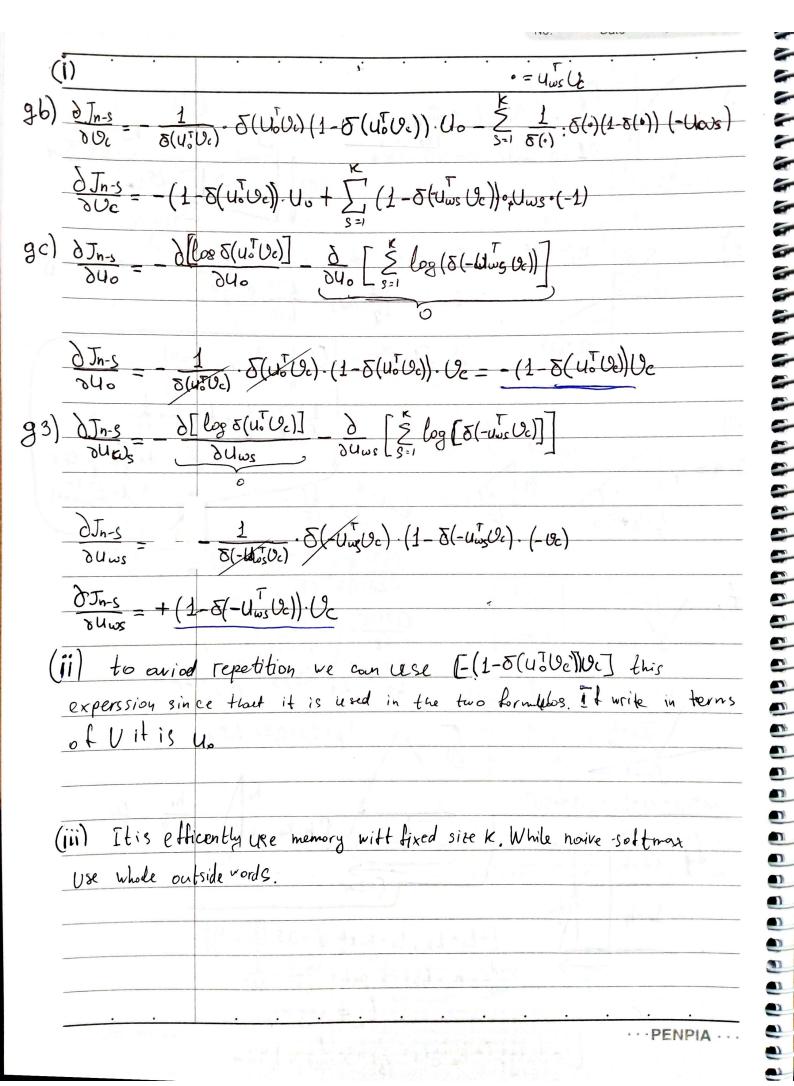
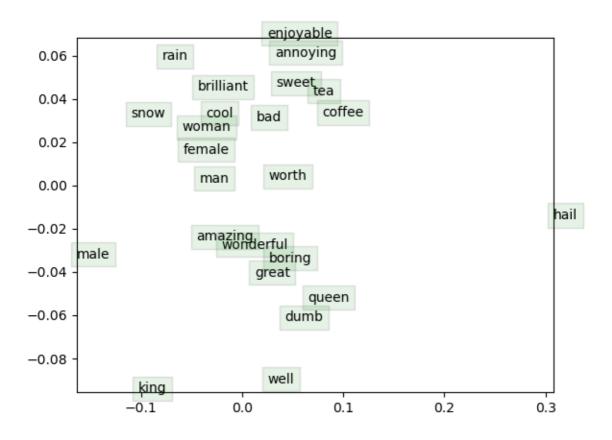


 $\frac{c)}{\partial u_{u}} = \frac{1}{\partial u_{u}} \left(-\frac{u_{0}}{v_{0}} (y_{c} + \log \frac{s}{v_{0}} v_{0}) \right) = \frac{1}{\partial u_{u}} \left(-\frac{u_{0}}{v_{0}} v_{0} \right) + \frac{1}{\partial v_{0}}$ if w = 0: $\frac{\partial J}{\partial u_{u}} = 0 + \frac{1}{2} \left(\frac{\partial J}{\partial u_{u}} \right) = \frac{1}{2} \left(\frac{\partial J}{\partial u_{u}} \right) + \frac{1}{2} \left(\frac{\partial J}{\partial u_{u}} \right) = \frac{1}{2} \left(\frac{\partial J}{\partial u_{u}} \right) + \frac{1}{2} \left(\frac{\partial J}{\partial u_{u}} \right) = \frac{1}{2} \left(\frac{\partial J}{\partial u_{u}} \right) + \frac{1}$ $\frac{C)}{\partial u} = \frac{1}{\partial u} \left(-\frac{1}{10} \frac{1}{10} + \log \frac{1}{10} \frac{1}{10} \right) = \frac{1}{10} \left(-\frac{1}{10} \frac{1}{10} \right) + \frac{1}{10} \frac{1}{10} \frac{1}{10} = \frac{1}{10} \frac{1}{10} \frac{1}{10} = \frac{1}{10} \frac{1}{10} \frac{1}{10} \frac{1}{10} = \frac{1}{10} \frac{1}$ d) dJ = [dJ dJ , dJ] = [y ve , y ve , ..., - ve + y ve , ..., y ve] = (y - y -) ve $\frac{f}{\delta(x)} = \frac{e^{x}}{e^{x+1}} \left\{ \frac{\partial(\delta(x))}{\partial x} = \frac{(e^{x})'(e^{x}+1) - e^{x}(e^{x}+1)'}{(e^{x}+1)^{2}} = \frac{e^{2x}}{(e^{x}+1)^{2}} = \frac{e^{x}}{(e^{x}+1)^{2}} = \frac{e^{x}}{(e^{x}+1)} = \frac{1}{e^{x}+1}$



 $\sum_{s=1}^{R} \log \left(\delta \left(-u_{ms} U_{s} \right) \right) + 0 = \frac{\partial}{\partial u_{ms}}$ d Inersa log(ol-day) (5(-Uwx Oc)) = X=1,-1K x=1,...,K 1 8(ux, Uc) (1-5(ux, Ue)).5(-ux, Uc). (-Uc) duws (1-8(-4w, U) Uc d Thes Duws $\frac{\partial \mathcal{I}(\mathcal{O}_{c},\omega_{t},j,U)}{\partial \mathcal{U}}$ D Jenio-gram <u>δ J(Oςω+j,U)</u> VOc DESCIP-Grown <u>δΙ(υς,ωε+j,υ)</u> OJSKio grown (w + c) -n < 9 < m 200



The illustration demonstrates that certain words are grouped together, but they may not always be located in the same location.

For example, the words "amazing," "wonderful," "great," and "boring" are grouped together to represent e motions, as are "cool" and "brilliant," and "enjoyable" and "annoying."

However, some of the groupings are more successful than others. For example, the words "female" and "woman," as well as "tea" and "coffee," are more closely clustered together.