The variables y and x are related to each other according to the following equation for $0 \leq x \leq 2$.

$$y = ax + be^x$$

You are provided with **data.txt** file where each line contains a value of x and the corresponding value of y.

i. Compute the values of a & b so that the corresponding curve best fit the data provided in the data.txt file. **(13)**

ii. Plot the provided data points as well as the computed curve **in a single plot with different colors**. **(7)**