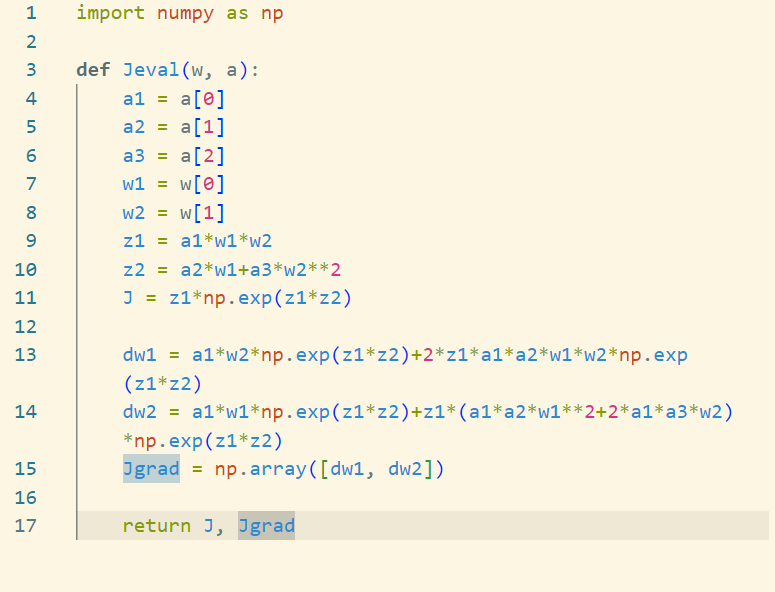
This homework is done by Tianwei Mo.

1. The python function:



1. The python function:

文本

描述已自动生成

1. Assume , matrix with ones on the first column.
2. The python function:

文本

描述已自动生成

1. The python function:

文本

描述已自动生成

1. Draft of :

白板上写着字

描述已自动生成

1. The global minima of is 0.
2. Let initial to be . By gradient decent, it would converge to . However, 1 is a local minima instead of global minima.

A should be a number such that and are both close to 1.

Thus,

1. A
2. The python function:

文本, 应用程序

描述已自动生成

1. The python function:

文本

描述已自动生成

We find when we iterate through above equation.