

Hasanat Jahan  
CS381 - Homework 3 Report  
Date: May 12, 2021

For parameters  
Size = 150  
Window = 5  
Min\_count = 2  
Iter = 10

### No.1

Similarity between 'dirty' and 'clean'  
0.38198793  
Similarity between 'big' and 'dirty'  
0.26238802  
Similarity between 'big' and 'large'  
0.4493742  
Similarity between 'big' and 'small'  
0.4935096

### No.2

Top most similar words for polite  
[ ('respectful', 0.6820230484008789),  
('courteous', 0.6720027923583984),  
('gracious', 0.6493042707443237),  
('cheerful', 0.6042205691337585),  
('thoughtful', 0.5872182250022888)]  
Top most similar words for orange  
[ ('peach', 0.5205429196357727),  
('ventura', 0.5011196732521057),  
('poinsettia', 0.4869462251663208),  
('lackawanna', 0.48508575558662415),  
('yellow', 0.48281171917915344)]

### No.3

For parameters  
Size = 50  
Window = 2  
Min\_count = 2  
Iter = 10

Top most similar words for polite  
[ ('gracious', 0.7714824080467224),  
('respectful', 0.7702494859695435),

('courteous', 0.7576513886451721),  
('candid', 0.742175817489624),  
('cheerful', 0.7380144596099854)]

Top most similar words for orange

[ ('angostura', 0.7114437818527222),  
('poinsettia', 0.6578684449195862),  
('calico', 0.6165788173675537),  
('frat', 0.613622784614563),  
('muskingum', 0.6117346286773682)]