MSCI-641 Assignment 3 Report

Name: Nauman Ahmed

Student ID: 20743448

'Good': [('**great**', 0.7717987298965454), ('**decent**', 0.6932916641235352), ('**nice**', 0.6299545764923096), ('**excellent**', 0.5944221019744873), ('**fantastic**', 0.584172248840332), ('**wonderful**', 0.5581106543540955), ('**terrific**', 0.5420376658439636), ('**amazing**', 0.5181739926338196), ('**bad**', 0.5087571144104004), ('**superb**', 0.5039095878601074), ('**reasonable**', 0.49886658787727356), ('**awesome**', 0.4908325970172882), ('**outstanding**', 0.4701698422431946), ('**exceptional**', 0.46337318420410156), ('**poor**', 0.46199336647987366), ('**fabulous**', 0.4608704447746277), ('**impressive**', 0.44598644971847534), ('**well**', 0.44133949279785156), ('**perfect**', 0.43780678510665894), ('**best**', 0.428197979927063)]

'Bad': [('**horrible**', 0.572378396987915), ('**terrible**', 0.5618752241134644), ('**awful**', 0.5356771945953369), ('**good**', 0.5087571144104004), ('**poor**', 0.4470311999320984), ('**strange**', 0.43793827295303345), ('**shabby**', 0.4313490390777588), ('**funny**', 0.41577258706092834), ('**disappointing**', 0.41436541080474854), ('**horrendous**', 0.41010451316833496), ('**horrid**', 0.40982475876808167), ('**hideous**', 0.4065527319908142), ('**unfortunate**', 0.4004982113838196), ('**weird**', 0.3953268527984619), ('**scary**', 0.395248144865036), ('**meh**', 0.3905789852142334), ('**atrocious**', 0.39020049571990967), ('**nasty**', 0.3747873306274414), ('**horrific**', 0.374494731426239), ('**vile**', 0.37318846583366394)]

Most of the words similar to 'good' are positive and that to 'bad' are negative. However, there are some exceptions to this. For instance, 'bad' and 'poor' are output as similar to 'good' and 'good' is output as similar to 'bad'. Words are considered similar if they appear close together in the corpus quite often or if they can be used interchangeably in the same context. Using words interchangeably also means that opposite words can be used in place of each other in the same context. This is why we get these exceptions of 'bad' and 'poor' being similar to 'good'.