D-regular graph(Directed — Undirected)*

Project 9[†]

Lokesh Nirania (170010009), Mandeep Bawa (170030038) Computer Science and Engineering, IIT Dharwad

November 21, 2018

Abstract

This paper describes the techniques followed by our team to implement a powershell script to make a *graph in latex* as a part of the course CS 213 Software System Lab.

1 Working Of Code

Our program takes input from user for undirected or directed graph. After this step it ask if user want to give *matrix file*.

1.1 Matrix file

A n*n matrix file is required for this program to work. Any char or integer (0 for no link) can be given in a cell of matrix. These will represent edge labels in the formed graph. If user does not want to give a matrix then our program ask for the number of vertices required in graph. Then our program execute and final pdf is displayed.

^{*}This is a report on the course project for the course CS 213 Software System Lab

[†]Email IDs of team members:170010009@iitdh.ac.in,170030038@iitdh.ac.in

2 Step by Step Improvement

Firstly program for simple directed graph was made using only latex in which we need to manually set number of vertices in a file and execute. Then we tried our best to make it user friendly using powershell.

All the Latex syntax were written in a file using powershell.

Powershell takes input from user and write a file in latex.

After the file has been written, powershell will execute the latex file and will display the PDF on screeen. It will automatically remove all the *tex,*log files after the work is done.