# Social Media – Lab 3 ***Pawanjeet Kaur***

## **FAST GREEDY ALGORITHM:**

A close up of a logo

Description automatically generated

## **WALKTRAP ALGORITHM**

A close up of a logo

Description automatically generated

## **LABEL PROPAGATION ALGORITHM:**

A picture containing text

Description automatically generated

## **SPRINGLASS ALGORITHM**

## **GIRVAN NEWMAN ALGORITHM:**

A picture containing map, sky

Description automatically generated

# ADVANTAGES / DISADVANTAGES OF GIRVAN NEWMAN:

**Advantage:**

1. Easy to implement
2. GN algorithm is sensitive and accurate method for extracting community structure from both real and artificial networks
3. GN algorithm detects the known community structure with high degree of success.

**Disadvantage:**

1. Limits the network with only thousands of nodes
2. GN algorithm is not very time efficient with networks containing large number of nodes and data. i.e. it is not favorable for very larger number of datasets.