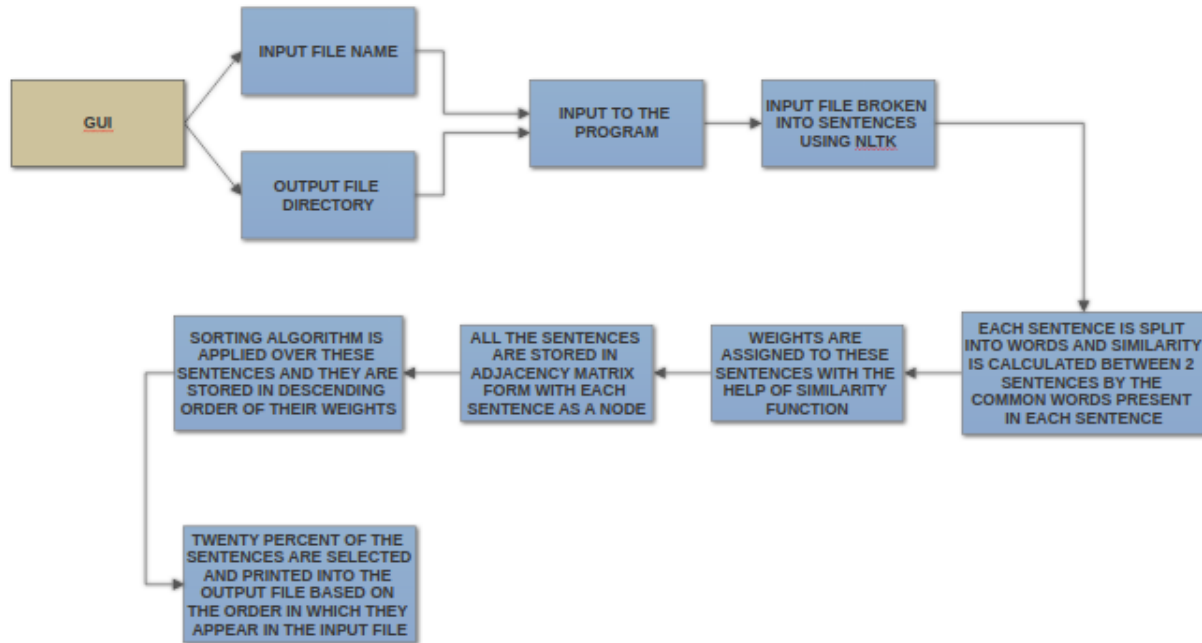


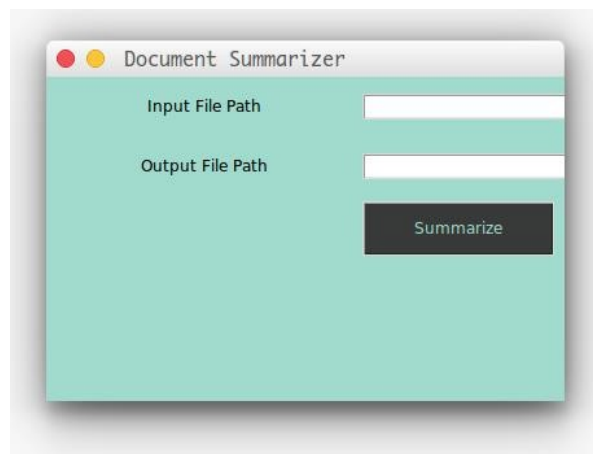
REPORT

MINI PROJECT -1

Flow Chart :



Input Gui Box:



Algorithm : Text rank Algorithm

First the sentences are taken from the input file by replacing all the punctuation marks by empty space and these sentences are made as the nodes of the graph. Similarity between the nodes is calculated by the no of common words present between the sentences and the similarity count increases by the length of the common word.

The graph is stored in adjacency matrix form and the nodes with highest weights are taken from the graph by applying the sorting Algorithm.

Then a particular percentage of sorted sentences are printed to the output file in the way they appeared in the text file .

The similarity between 2 sentences is calculated by using the following function:

```
def rank(str1,str2):
    words1 = str1.split()
    words2 = str2.split()
    count=0
    for i in words1:
        for j in words2:
            if(i.lower() == j.lower()):
                count = count + len(i)
    return count
```

Data Structures:

graph data structure (Adjacency Matrix)

Datasets and parameters:

Wikipedia articles

<http://qwone.com/~jason/20Newsgroups/>

Results:

We are taking 20% of the most repeated statements(statements with more weight) from the text file and printing them to the output file in the order they appear in the text file.

Contributions:

Rohith Reddy G : Design of similarity between Sentences ,Formatting the input ,Research ,Report

Rajat Sharma : Design of GUI , Formating the output Summary , Research, Report.

Prabal Vashisht : Design of the sorting Algorithm , Graph Data structure, Research , Report.

Output Summary :

Output1:

Fast beam of neutral atoms created using lasers and plasma 1 Electrically charged particles are relatively easy to accelerate using electric and magnetic fields.

2 Neutral particles cannot be steered in the same way, which is a bit disappointing, since they are useful experimentally due to their much greater ability to pierce target materials.

8 Laser acceleration works by bombarding atoms with light pulses to strip electrons off, creating a plasma—a neutral gas of ions and electrons.

9 Since the electrons are a lot less massive than the ions, you can tune the laser pulses in a precise way that separates them.

12 So any positively charged particle added to the plasma will experience acceleration from the plasma waves.

13 Laser plasma accelerators are more compact than many other accelerator designs, including those used in big experiments like the Large Hadron Collider (LHC), although they haven't yet reached the same energies.

15 To adapt the method to neutral particles, the authors of the new study began with all the steps in the previous paragraph, using a plasma of argon atoms.

16 However, the free electrons in the plasma were recombined with non-accelerated ions to create Rydberg atoms, in which electrons are only barely attached to the nucleus.

23 Neutral particles have greater penetrating power when striking a target for the same reason they are hard to accelerate: they are not affected by electromagnetic fields.

Output 2:

Nexus One could be one of the first Android smartphones to go into orbit 1 The Nexus One may be a few iterations behind the latest Nexus handsets and other Android smartphones on the market, but that doesn't mean it isn't suited for a trip into space.

9 The satellite will run apps that were chosen in a Facebook competition—apps like Scream in Space, which will use the Nexus One's speakers to test whether someone can, in fact, scream in space.

10 In the second phase of the flight , the STRaND-1 team will hand over the satellite's in-orbit operations to the Nexus One to test out its capabilities with this type of scenario.

15 A smartphone won't be flying a big spaceship anytime soon, but the data gathered from testing regular consumer hardware with open software in orbit will be helpful in lowering the cost of commercial and research access to space.

Output 3:

US aims to clinch Afghan deal on prisoner transfer WASHINGTON (Reuters).

Defense Secretary Chuck Hagel and Afghan President Hamid Karzai spoke in a call on Saturday about efforts to quickly resolve one of the most vexing issues in the two countries' relations, the delayed transfer to Afghan control of a key detention center.

The transfer of the detention center at Bagram air base is a persistent source of tension, with Karzai's office warning in a statement on Wednesday that "any more delays could harm the bilateral relations.

"During Hagel's visit to Afghanistan last weekend, Karzai accused the United States of colluding with the Taliban and of holding unilateral negotiations with the insurgents - allegations the United States sharply denied and which exposed deep tensions after 11 years of war.

Output 4:

He was made caretaker of the ministry in December, when Ahmadinejad removed Marzieh Vahid Dastjerdi, Iran's sole serving female Cabinet member, after her ministry criticized the government for not providing money to import medicine.

Conservatives, who turned on Ahmadinejad after he challenged Iran's clerical establishment last year, are using Iran's economic woes to criticize his allies in the run-up to presidential elections in June.

Output 5:

He called a total of 4 penalties on the Habs and one on the Nordiques.

Stewart, being an ex-Nordique himself, was looking to call penalties on the Habs while letting the Nords get away with murder.

WE WAS ROBBED!!!!The Nords tied it with over 1 minute to go while Lebeau was serving a penalty.

I don't mind Stewart calling a penalty in the last 5 min.

The Nords were caught with their hand in the cookie jar more than once.

He was shaky and on his knees for the rest of the night.

but failed to put the puck in the net.