**Shannon Fano Algorithm for Variable Length Coding Scheme**

Name - **Manas Pratim Biswas**

Compilation Command: javac ShannonFano.java

Execution Command: java ShannonFano.java

Procedure:

1) ShannonInput1.txt contains a text. From this text we calculate probability of each

character appearing in the text and calculate shannon fano code for each of this

Character.

2) ShannonInput2.txt contains a string. Each character of this string is replaced by Shannon

Fano code generated in the previous step (Step 1). The resulting string is called the *Compressed String.*

3) ShannonFano.java is the primary Java program which is then executed. After executing this Java file, we get:

a) The Compressed String

b) A Symbol Code Table (Which is written in the file *025\_symbol\_table.csv*)

c) The Compression Ratio