Group Project 1

The GCContent.java program calculates the frequency of Guanine and Cytosine (%G~C content) in a DNA sequence. It is given as input the sequences of 6 Promoters (3 housekeeping promoters and 3 tissue specific promoters) and gives as output the %G~C content in each.

It is clear from the program output that housekeeping promoters have a higher %G~C content than do tissue specific promoters. The average %G~C content for the housekeeping promoters is 80.000% while the tissue specific promoters have an average %G~C content of 42.104%.