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**Program 1**

**Predictive coding**

I have used the given sample file DCabforCutie44.1.16Ascii.txt as part of the exercise. This audio file can be played using CoolEdit.

Original size of the file is 618 kb

Encoded file size is 405 kb

Compression Ratio is 3:2

**Huff\_encode**

Original size of the file is 618 kb

Encoded file size is 284 kb

Compression Ratio is 2:1

**7-Zip**

Original size of the file is 618 kb

Encoded file size is 195 kb

Compression Ratio is 3:1

**Comparison**

We could see from the results that 7-Zip offers the highest compression ratio compared to huff or predictive encoding.