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CA Assignment-2

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1. Logic of mode.

" provements".

Just the image is taken from current directory with name "test png". Then it is converted to grayscale and then checks if it is 208 * 208 pixels. If not then resizes it.

Now, image is divided into 8 * 8 pixel squares

So that they have 26 tiles.

Now, user can click on any tile and the tile is rotated by so degrees and this actions is logged to a list

After user has finished rotating the image. The code uses Huffman coding to compress recorded movements

The compressed log is then printed on the terminal.

2. Calculation of encoding and storage efficiency.

for each movement assuming 8 bits/character.

Original log takes: 56 bits.

for encoded movements the log takes: 28 bits.

Rotation: 32 bits Rotation: 16 bits

Row: 12 bits Row = 8 bits

Column: 12 bits Column: 6 bits.

Total: 56 hits Total: 28 bits.