```
1  //To perform Discrete Cosine Transform (block compression)
2  clc;
3  clear;
4  ieee(0);
5  x = 50;
6  I1 = linspace(1,50);
7  disp("Input Matrix =",I1);
8  I2 = dct(I1);
9  I3 = [I2(1:x),zeros(1,(100-x))];
10 I4 =idct(I3);
11 disp("Decompressed Matrix =",I4);
12 //Mean Square Error
13 for i = 1:100
14     [m(1,i)] = abs(I1(i)- I4(i))^2;
15 end
16 disp("Mean Square Error =",m);
17
```