TITLE: Uniform Quantization.

clc;

clear all;

close all;

M=input('enter the no of quantization levels');

Xmax=16;

delta=(2\*Xmax)/M;

ip=[1 5 7 3 9 7 11 13 15 2 3];

interval=-Xmax:delta:Xmax

flag=0;

Op=[];

for i=1:length(ip)

for j=1:length(interval)

if ip(i)>=interval(j) && ip(i)<interval(j+1)

op=(interval(j)+interval(j+1))/2;

break;

end

end

Op=[Op op];

end

disp('output levels=');

disp(Op);

OUTPUT:

enter the no of quantization levels 8

interval =

-16 -12 -8 -4 0 4 8 12 16

output levels=

2 6 6 2 10 6 10 14 14 2 2