

```
clc%I am clearing display
clearvars%clearing all variables which were earlier there
A = [2, 2, 2; (2/3), (5/3), (5/3); 1, (5/2), (11/2)]; % Question matrix
X = [1; 0; 0]; % Initial guess
[u, X_result] = power_iteration(A, X, 10);%call of function
disp('Largest eigenvalue is is:');%For printing
disp(u);%Displaying the answer
clearvars%clearing all the trash again
function [u, X] = power_iteration(A, X_, n)%I defibe function here say
    X = X_;%COPY VARIABLE
    Y = X_;%TO STORE EIGEN VECTOR
    u = 0;%DUMMY FOR EIGEN VALUE
    for t = 1:n%ITERATION
        %disp(t) Loop checker
        Y = A * X;%Multiply as per algo
        u = max(Y);%maximum value from it
        %disp(Y)testing
        %disp(u) mic testing 1,2,3
        X = Y / u;%eigen vector
    end
end
```