```matlab
%MATLAB-3
clc
clear all
fprintf("MAJJIGA JASWANTH \n20BCD7171")
X = [0 0 1 1;1 0 0 0;1 1 0 1;1 1 0 0]
a = 0.85;
delta = 0.0375;
z = sum(X,1)

for i = 1:4
    for j =1:4
        if z(j) == 0;
            Y(i,j) = delta;
        else
            Y(i,j) = ((a*X(i,j))/z(j))+delta;
        end
    end
end
disp(Y)
[B,D]=eigs(X);
p = B(:,1);
x = p/sum(p);
n=char(65:68);
for i = 1:1:4
    fprintf("page rank of"+x(i)+"is"+p(i)+"\n")
end
```

MAJJIGA JASWANTH
20BCD7171
X = 4×4

```
     0     0     1     1
     1     0     0     0
     1     1     0     1
     1     1     0     0
```

z = 1×4

```
     3     2     1     2
```

```
  0.0375    0.0375    0.8875    0.4625
  0.3208    0.0375    0.0375    0.0375
  0.3208    0.4625    0.0375    0.4625
  0.3208    0.4625    0.0375    0.0375
```

```
page rank of0.28879is0.55529
page rank of0.14812is0.2848
page rank of0.33901is0.65184
page rank of0.22408is0.43086
```