**Programming Assignments Submission Template**

**Applied Mathematics**

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**Problem Statement:** Draw the mesh plot for

**Code in MATLAB:**

%mesh plot for z=log(x^2+y^2 ) for 1?x?5 and1?y?5

x=[1:0.01:5];

y=[1:0.01:5];

[x,y]=meshgrid(x,y);

z=log10(x.^2+y.^2);

mesh(x,y,z);

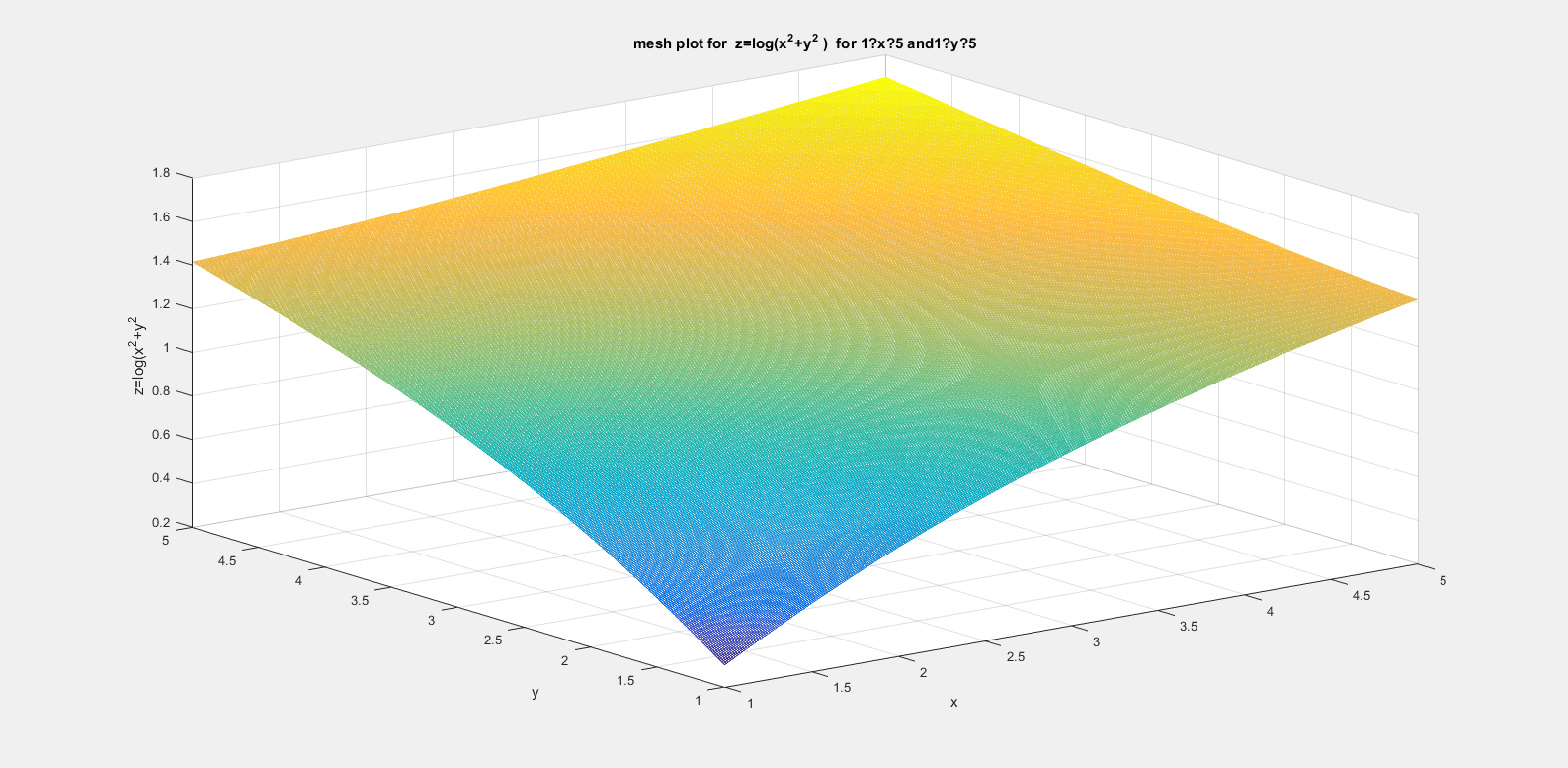
title('mesh plot for z=log(x^2+y^2 ) for 1?x?5 and1?y?5');

xlabel('x');

ylabel('y');

zlabel('z=log(x^2+y^2 ');

**Output of program:** *(Snap shot of the output of your code in command window and figure window)*

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