Code :

```
clc;
clear all;
Pb=0.02;
Ao=0.04;
r=0.5:0.2:1.5;
AreaCity=603;
A=38.4;
ang=pi/6;
NoUsersPerCell=A/Ao;
display(NoUsersPerCell);
len1=tan(ang)*r;
len=2*len1;
display(len);
AreaHexagon=3.*r.*len;
display(AreaHexagon);
NoCells=AreaCity./AreaHexagon;
display(NoCells);
NoUser=NoUsersPerCell.*NoCells;
display(NoUser);
plot(r,NoUser,'b');
xlabel('Radius of Hexagon');
ylabel('NoUser');
title('Graph for Estimating total number of Users In City ');
```

```
Octave

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                              Current Directory:  C:\Users\Ankit

Command Window
NoUsersPerCell = 960
len =

   0.5774    0.8083    1.0392    1.2702    1.5011    1.7321

AreaHexagon =

   0.8660    1.6974    2.8059    4.1916    5.8543    7.7942

NoCells =

   696.284   355.247   214.903   143.860   103.001    77.365

NoUser =

   6.6843e+05   3.4104e+05   2.0631e+05   1.3811e+05   9.8881e+04   7.4270e+04

>>
```

Output :