```
%symmetric method-circle

clc;clear all;close all
xc=input('enter xc-value :  ');
yc=input('enter yc-value :  ');
r=input('enter radius -value :  ');
th=0;
dth=1/r;
x=r;
y=0;


axis ([0 20 0 20])
hold on
while (th<=pi/4)
    plot(round(xc+x),round(yc+y),'bx')
    plot(round(xc+x),round(yc-y),'bx')
    plot(round(xc-x),round(yc+y),'bx')
    plot(round(xc-x),round(yc-y),'bx')
    plot(round(xc+y),round(yc+x),'bx')
    plot(round(xc+y),round(yc-x),'bx')
    plot(round(xc-y),round(yc+x),'bx')
    plot(round(xc-y),round(yc-x),'bx')

    th=th+dth;
    x=x-y*dth;
    y=y+x*dth;


end
```