```
%direct method-circle
%using Matrix
clc;clear all;close all
xc=input('enter x-value :  ');
yc=input('enter y-value :  ');
r=input('enter radius -value :  ');
x=xc-r;
j=1;
for i=0:2*r
    y=yc+sqrt(power(r,2)-power((x-xc),2));


    x1(j)=x
    y1(j)=round(y)
    y=yc-sqrt(power(r,2)-power((x-xc),2));


    y2(j)=round(y)
    x=x+1;
    j=j+1;


end
axis ([0 100 0 100])
hold on
plot(x1,y1,'rx',x1,y2,'rx')
```