**CHAPTER 2 : Lesson 4**

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| **Objective :** | Change the radius of the circle: Modify the script ﬁle circle.m to draw a circle of arbitrary radius r as follows:  • Include the following command in the script ﬁle before the ﬁrst executable line (theta = ...) to ask the user to input (r) on the screen: r = input(’Enter the radius of the circle: ’)  • Modify the x and y coordinate calculations appropriately.  • Save and execute the ﬁle. When asked, enter a value for the radius and press return. |
| **MATLAB**  **Code:** | theta = linspace(0,2\*pi,100);  r = input(' Enter the value of radius=');  x = r\*cos(theta);  y = r\*sin(theta);  axis('equal');  plot(x,y);  title('Circle of given radius r') |
| **Output:** | Enter the value of radius=2 |