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12. Write python programs for following graphical object

a. Draw the target symbol (a set of concentric squares, alternating red and white) in a graphics window, that is, 200 pixels wide by 200 pixels high

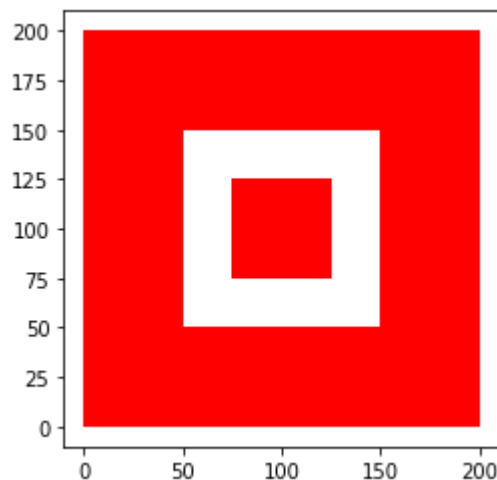
```
In [1]: import matplotlib.pyplot as plt
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In [2]: rect = plt.Rectangle((0,0),200,200,fc='r')
plt.gca().add_patch(rect)

rect = plt.Rectangle((50,50),100,100,fc='w')
plt.gca().add_patch(rect)

rect = plt.Rectangle((75,75),50,50,fc='r')
plt.gca().add_patch(rect)

plt.axis('scaled')
plt.show()
```



b. Create 5x5 rectangle whose top left corner is at (row5,col5). If the sum of the rows and columns number is even, set the fill color of the rectangle to white, otherwise set it to the black. Then draw the image

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In [3]: plt.figure()
plt.axis([0,25,0,25])
curr = plt.gca()

for i in range(0,5):
    for j in range(0,5):
        if((i+j) % 2 == 0):
            curr.add_patch(plt.Rectangle((i*5,j*5), 5, 5, color='white'))
        else:
            curr.add_patch(plt.Rectangle((i*5,j*5), 5, 5, color='black'))
plt.show()
```

