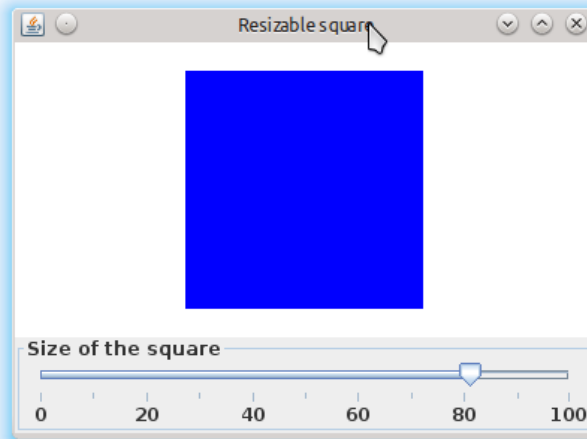


Problem 1

Write a Swing application which displays a window with a slider (**JSlider**) at the bottom and an area with a square. The size of the square is controlled by the value `val` from the range $[0, 100]$ on the slider:



The side of the square is always `val%` of the length of the smaller of the width and height of the area on which the square is drawn. The square should always be centered on this area.
