

Foundations of Computer Science

PROJECT NIGHTFALL UNIT QUIZ

WRITE A PROGRAM THAT WILL DO THE FOLLOWING:

10 - points: Create a drawing space 500 x 500, make the background black

10 - points: Draw a yellow square that is 100 x 100 pixels - make sure it is CENTERED at x-250, y-250

10 - points: When the mouse is pressed...

10 - points: Draw a blue circle that is 50 x 50 pixels at x-250 y-175

10 -points: When the mouse is NOT PRESSED, only the yellow square should be visible

POSSIBLE SOLUTION

```
void setup()
{
  size(500,500); // set size to 500x500
  background(0); // set background to black
}

void draw()
{
  fill(255,255,0); // set fill color to yellow
  rect (200,200,100,100); // draw and center rectangle

  if (mousePressed==true) // set mousePressed condition

  {fill(0,0,255); // set fill color to blue
  ellipse(250,175,50,50);} // draw circle

  else

  {fill(0); // set fill color to black
  ellipse(250,175,50,50);} // draw circle when mouse not pressed
}
```