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CSCE-313-002 Embedded Systems
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Project 4

1.0 | Screenshots

Display image output:

```
Problems Tasks Console Nios II Console Console Properties

p4 fix4 Nios II Hardware configuration - cable: USB-Blaster on localhost [1-7] device ID: 1 instance ID: 0 nar Display image at 1.0 scale Display image at 1.0 scale
```

Resize image by 0.5 output:

```
Problems Tasks Console Nios II Console Properties

p4 fix4 Nios II Hardware configuration - cable: USB-Blaster on localhost [1-7] device ID: 1 instance
Display image at 0.5 scale
```

Resize image by 2.0 output:

```
Problems Tasks Console Nios II Console Properties

P4 fix4 Nios II Hardware configuration - cable: USB-Blaster on localhost [1-7] device ID: 1 instant Display image at 2.0 scale Display image at 2.0 scale
```

2.0 | Questions

- a. Given the following frame:
 - i. Resolution: 640x480, totaling 307200 pixels.
 - ii. Red Pixel coordinates: (6,4)
- b. 24-Bit RGB into pixel memory with a base address of 0x08000000, coordinates:

(4,1)

- i. 0x080 00408 [Base + (00000001 000000100 0)2], 8 bits followed by 9 bits as demonstrated in lecture 6 page 29.
- ii. Resolution: 640x480, so the frame size is 640x480x24bit, totaling 7372800.