Inwood Early College for Health and Information Technologies
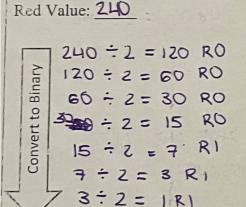*Career and Technical Education Department*

AP Computer Science Principles 1

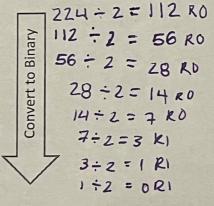**Pixelated Pic Project**

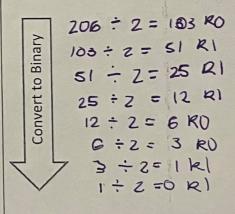## Graphic Organizer

Pixel Color Description: __Creme color (tanish)__
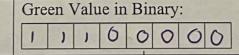
RGB Values: __240, 224, 206__

Red Value: 240	Green Value: 224	Blue Value: 206
Convert to Binary $240 \div 2 = 120$ R0 $120 \div 2 = 60$ R0 $60 \div 2 = 30$ R0 $30 \div 2 = 15$ R0 $15 \div 2 = 7$ R1 $7 \div 2 = 3$ R1 $3 \div 2 = 1$ R1 $1 \div 2 = 0$ R1	Convert to Binary $224 \div 2 = 112$ R0 $112 \div 2 = 56$ R0 $56 \div 2 = 28$ R0 $28 \div 2 = 14$ R0 $14 \div 2 = 7$ R0 $7 \div 2 = 3$ R1 $3 \div 2 = 1$ R1 $1 \div 2 = 0$ R1	Convert to Binary $206 \div 2 = 103$ R0 $103 \div 2 = 51$ R1 $51 \div 2 = 25$ R1 $25 \div 2 = 12$ R1 $12 \div 2 = 6$ R0 $6 \div 2 = 3$ R0 $3 \div 2 = 1$ R1 $1 \div 2 = 0$ R1

Red Value in Binary:

1	1	1	1	0	0	0	0

Green Value in Binary:

1	1	1	0	0	0	0	0

Blue Value in Binary:

1	1	0	0	1	1	1	0

Pixel color bitstring:

1	1	1	1	0	0	0	0	1	1	1	0	0	0	0	0	1	1	0	0	1	1	1	0