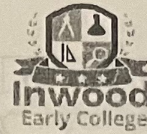


Name: Alexandra Flores

Date: _____



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: light purple

RGB Values: 203, 182, 217

Red Value: 203

Convert to Binary

$$\begin{array}{l} 203 \div 2 = 101 \text{ R1} \\ 101 \div 2 = 50 \text{ R1} \\ 50 \div 2 = 25 \text{ R0} \\ 25 \div 2 = 12 \text{ R1} \\ 12 \div 2 = 6 \text{ R0} \\ 6 \div 2 = 3 \text{ R0} \\ 3 \div 2 = 1 \text{ R1} \\ 1 \div 2 = 0 \text{ R1} \end{array}$$

Green Value: 182

Convert to Binary

$$\begin{array}{l} 182 \div 2 = 91 \text{ R0} \\ 91 \div 2 = 45 \text{ R1} \\ 45 \div 2 = 22 \text{ R1} \\ 22 \div 2 = 11 \text{ R0} \\ 11 \div 2 = 5 \text{ R1} \\ 5 \div 2 = 2 \text{ R1} \\ 2 \div 2 = 1 \text{ R0} \\ 1 \div 2 = 0 \text{ R1} \end{array}$$

Blue Value: 217

Convert to Binary

$$\begin{array}{l} 217 \div 2 = 108 \text{ R1} \\ 108 \div 2 = 54 \text{ R0} \\ 54 \div 2 = 27 \text{ R0} \\ 27 \div 2 = 13 \text{ R1} \\ 13 \div 2 = 6 \text{ R1} \\ 6 \div 2 = 3 \text{ R0} \\ 3 \div 2 = 1 \text{ R1} \\ 1 \div 2 = 0 \text{ R1} \end{array}$$

Red Value in Binary:

1 1 0 0 1 0 1 1

Green Value in Binary:

1 0 1 1 0 1 1 0

Blue Value in Binary:

1 1 0 1 1 0 0 1

Pixel color bitstring:

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