Homework 2

1. Please convert the following binary to decimal.

Show your work.

11 000//

1 2 + 1 2 + 0 2 + 0 2 + 0 2 + 1 2 + 1 2 = 99

2. Please convert the following hexadecimal to binary. Show your work.

hexadecimal -> decimal 6.16' + 8.16° = 6.16+8.1=96+8=104 2552-0

2/26 01

1101000

3. Please research on "Pony Express", write a few short paragraphs to discuss the purpose, methodology, difficulties, and an interesting finding of "Pony Express". The Pony Express was a means of U.S. mail deliverly. It used a system of horse and rider relays to transport mail between Missouri and Calitornia. The goal of the Pony, Express, was to allow news to be broug to the west faster than the established 24 day method of delivery. Using the horse and rider relay system, the pony express was able to deliver news in 10 days, While the pony express shortened the time it took to transport, news, it still had its difficulties. The riders taced rough terrain, and harsh weather. They suffered from lack of water on the trail and were threatened by indian attacks. The difficulties surrounding the pony express, were solved by the telegraph. The most interesting thing about the pony express is that the pony express only bested 18 months. Considering the historical significance that historians place on the ny express, I would have though the system was in place for than 18 months.

4. Please research on 1980's Maintrame computers and modern day computures. Write a few short paragraphs to compare these two types of computers regarding the following cost, size, performance, and energy consumption. While computers made in the 1980s and those of the modern day shage the name of computer, they are vastly different. The computers of the 1980s gost upwards of \$800. When the Apple Mac Intosh entered the market in 1984, it was priced at \$2,500. While modern computers can still be quite expensive, there are many cheaper options avaliable. Today you can even get a computer for under \$100. Modern computers are much smaller than their ancestors. Today, computers can be made so small that they fit in the palm of your, hand. Back in the 1980s this was not the case and computers would take up an entire room. The performance of modern computers has surposed those, of the 1880s. While most computers in the 1980s did, not have color displays, this is standard in modern computers. Modern computers have become more user triendly and process information at a much faster rate. Modern computers also consume less power and are able to be powered by rechargable batteries.

5. Please research on Morse Code. List (Draw) all Morse Code.