

## Answer on Question #58725 – Programming & Computer Science – Visual Basic

1. Numeric data comprises mostly of what?
2. The binary number for 8 is what?
3. The binary number for 7 is what?
4. Convert 64 to binary number?
5. Convert 1101 to decimal?

1. Numeric data comprises mostly of what?

**Answer:**

Numeric data comprises mostly of numbers.

2. The binary number for 8 is what?

**Solution:**

$$8=8+0+0+0=1\times 2^3+0\times 2^2+0\times 2^1+0\times 2^0$$

**Answer:**

The binary number for 8 is 1000.

3. The binary number for 7 is what?

**Solution:**

$$7=4+2+1=1\times 2^2+1\times 2^1+1\times 2^0$$

**Answer:**

The binary number for 7 is 111.

4. Convert 64 to binary number?

**Solution:**

$$\begin{aligned} 64 &= 64 + 0 + 0 + 0 + 0 + 0 + 0 = \\ &= 1 \times 2^6 + 0 \times 2^5 + 0 \times 2^4 + 0 \times 2^3 + 0 \times 2^2 + 0 \times 2^1 + 0 \times 2^0 \end{aligned}$$

**Answer:**

The binary number for 64 is 1000000.

5. Convert 1101 to decimal?

**Solution:**

We suppose that 1101 is binary. Then

$$1101=1\times 2^3+1\times 2^2+0\times 2^1+1\times 2^0=8+4+0+1=13$$

**Answer:**

The decimal number for 1101 is 13.