Lab Goal: This lab was designed to teach you more about base conversion.

Lab Description : Read in a character or group of characters and convert each letter to its binary equivalent.

To convert a base 10 number to binary follow these steps.

Files Needed ::

Convert.java ConvertRunner.java convert.dat

Loop as long as num greater than 0

Base 2 2 2 2 2 2 2 2	num / 65 32 16 8 4	remainder 1 0 0 0 0 0	0/0
_	1 0	0	
2	12	0	
2	11	1	

```
while( num > 0 )
{
    remainder = num % 2
    num = num / 2
}

Each binary number will contain 8 digits
so
    65 = 0100 0001. % and div are your friends.
```

Sample Data:

HELLO WORLD COMPUTER SCIENCE BIG BASE FUN

Sample Output:

```
Java Base Conversion ( allowed on this lab )
//converts 234 base 6 to base 10
int base10 = Integer.parseInt("234",6);
//converts base 10 to base 3
out.println(Integer.toString(base10, 3);
```

- Number Systems - www.apluscompsci.com