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.

#### Loop as long as num greater than 0

Base	num /	remainder	%
2	65	1	
2	32	0	
2	16	0	
2	8	0	
2	4	0	
2	2	0	
2	1	1	
2 2	2	0 1	

### Files Needed ::

Convert.java
ConvertRunner.java
convert.dat

```
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);
```