**Array Assignment 2 – Part 1 ‘base 2’**

Using the following Method Signature:

public Int[] powerOfTwo(int n);

create a method that exponentially increases base 2 by ‘n’, and store every value from 0 to ‘n’ in an array. So if the parameter passed to this method is 5, you should store the following in an Array:

20=1;  
21=2;  
22=4;  
23=8;  
24=16;

**Array Assignment 2 – Part 2 ‘power()’**

Using the logic from part 1 create a method using the following method signature:

public Int[] power (int base, int power);

This method should give you all of the exponential values of the ‘base’ to ‘power’.

For example:   
if we pass the base as 3 and the power as 5, the method should hold the values for the following:

30=1;  
31=3;  
32=9;  
33=27;  
34=81;