**Program Statement:** Write a program to find power on a number

**Theory:** The powers of numbers are also called exponents. A number, *X* , to the power of 2 is also referred to as *X* squared. The number *X* to the power of 3 is called

*X* cubed. *X* is called the base number. Calculating an exponent is as simple

as multiplying the base number by itself.

Ex: 2^3

2^3 = 2\*2\*2

= 8

In this program we will perform the operation using pow() function in stdlib file.

**Algorithm:**

1. Start

2. Read base

3. Read exponent

4. result = pow(base,exponent)

5. Write result

6. Stop

**Program:**

//load header files

#include<conio.h>

#include<stdio.h>

#include<math.h>

void main()

{

//declare variables

int base, expo,result;

clrscr();

//read base value

printf("Enter the base number: ");

scanf("%d",&base);

//read exponential value

printf("Enter the exponent: ");

scanf("%d",&exponent);

//calculate base raised to power of exponent

result = pow(base,expo);

//write output on console

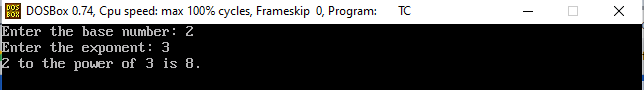
printf("%d to the power of %d is %d."base,expo,result);

getch();

}

/\*

**Output**

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