INTEGER EXPONENTIAL

```c
#include<stdio.h>

#include<math.h>

int integer_exponential(int x, int n)

{

    if (n == 0)

    {

        return 1;

    }

    else if (n % 2 == 0)

    {

        int y = integer_exponential(x, n / 2);

        return y * y;

    }

    else

    {

        return  x * integer_exponential(x, n - 1);

    }

}


int main()

{

    int x, n;

    printf("Enter the base number: ");

    scanf("%d", &x);

    printf("Enter the exponential number: ");

    scanf("%d", &n);

    int val = integer_exponential(x, n);

    printf("The answer is %d",val);
```

}

OUTPUT

```
Enter the base number: 12
Enter the exponential number: 3
The answer is 1728
```