Paul is provided with a number “x” whose scope will remain throughout the program.

Using the concept of recursion, help Paul to write a “C program” for finding the value

of (x)n where n should be less than or equal to 5.

#include <stdio.h>

int power(int x, int n) {

if (n == 0) {

return 1;

} else {

return x \* power(x, n-1);

}

}

int main() {

int x;

printf("Enter the value of x: ");

scanf("%d", &x);

for (int n = 0; n <= 5; n++) {

printf("%d to the power of %d is: %d\n", x, n, power(x, n));

}

return 0;

}

