DIGITAL ASSIGNMENT 2

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5)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

CODE:

#include <stdio.h>

int power(int x, int n);

int main() {

int x, n;

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

scanf("%d", &x);

printf("Enter the value of n (less than or equal to 5): ");

scanf("%d", &n);

printf("%d^%d = %d", x, n, power(x, n));

return 0;

}

int power(int x, int n) {

if (n == 0) {

return 1;

} else {

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

}

}