c program to calculate sum of digit of a number using a while loop

#include <stdio.h>

int main() {

int num, originalNum, remainder, sum = 0;

printf("Enter a positive integer: ");

scanf("%d", &num);

originalNum = num;

if (num < 0) {

printf("Error: Please enter a positive integer.\n");

} else {

while (num != 0) {

remainder = num % 10;

sum += remainder;

num /= 10;

}

printf("Sum of digits of %d = %d\n", originalNum, sum);

}

return 0;

}