4 July

**Write a C program for Super Perfect number.**

#include<stdio.h>

//function to find the sum of divisors of num

int divisorsum(int n){

int sum = 0; // intialising the sum

for (int i=1; i\*i <= n; ++i){

if (n%i == 0) { // find the sum of divisors

if (i == (n/i))

sum += i;

else

sum += (i + n/i);

}

}

return sum;

}

int main() {

int n = 16;

int n1 = divisorsum(n);

if(2\*n == divisorsum(n1)){

printf("The number %d is a superperfect number", n);

} else{

printf("The number %d is not a superperfect number", n);

}

return 0;

}