1.Write a function that checks if a given number is an Armstrong number. An Armstrong number of n digits is equal to the sum of its digits each raised to the power of n.

#include <stdio.h>

int Arm (int number) {

int n, rem, res=0,nu;

nu=number;

while (number != 0) {

number /= 10;

n++; }

while (nu!= 0) {

rem = nu % 10;

res += pow(rem, n);

nu /= 10;

}

if (res == number) { printf("%d is an Armstrong number.\n", number); }

else {printf("%d is not an Armstrong number.\n", number); }

}

2. Write a function that checks if two given strings are anagrams. Two strings are anagrams if they contain the same characters in the same frequency.

#include <stdio.h>

#include <string.h>

#include <stdbool.h>

bool Ana (char str1[], char str2[]) {

int c [256] = {0};

for (int i = 0; i < strlen(str1); i++) {

c[(int)str1[i]]++;

}

for (int i = 0; i < strlen(str2); i++) {

c[(int)str2[i]]--;

}

for (int i = 0; i < 256; i++) {

if (c[i] != 0)

return false;

}

return true;

}

3. Write a function that calculates the sum of all even numbers in a given list of integers.

#include <stdio.h>

int sum(int a[], int size) {

int sum = 0;

for (int i = 0; i < size; i++) {

if (!(a[i] & 1)) {

sum += a[i];

}

}

return sum;

}

4. Write a function that calculates the GCD of two non-negative integers.

#include <stdio.h>

int gcd(int a, int b) {

while (b != 0) {

int t = b;

b = a % b;

a = t;

}

return a;

}

5. Write a function that converts a temperature from Celsius to Fahrenheit.

#include <stdio.h>

float cToF (float cel) {

return ((cel \* 1.8) + 32);

}