**Sum of Two Voltages Using Pointer to Function**

Write a C program to calculate the sum of two voltage values using a function that accepts pointers to the voltage variables.

#include <stdio.h> // Include standard input-output header

// Function to calculate the sum of two voltages using pointers

void sumVoltages(float \*voltage1, float \*voltage2, float \*sum) {

\*sum = \*voltage1 + \*voltage2; // Sum the two voltages

}

int main()

{

float voltage1 = 5.5; // First voltage value

float voltage2 = 3.2; // Second voltage value

float sum; // Variable to store the sum of the voltages

// Pointers to the voltage values

float \*v1\_ptr = &voltage1;

float \*v2\_ptr = &voltage2;

float \*sum\_ptr = &sum;

// Display the given voltage values

printf("Voltage 1: %.2f V\n", \*v1\_ptr);

printf("Voltage 2: %.2f V\n", \*v2\_ptr);

// Call the function to calculate the sum using pointers

sumVoltages(v1\_ptr, v2\_ptr, sum\_ptr);

// Display the sum of the voltages

printf("Sum of Voltages: %.2f V\n", \*sum\_ptr);

return 0;

}

**Output:**

Voltage 1: 5.50 V

Voltage 2: 3.20 V

Sum of Voltages: 8.70 V

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Process exited after 2.686 seconds with return value 0

Press any key to continue . . .