

Q.1 Write a Program to find the sum of all 1D Array elements by passing an array as an argument using UDF.

For example,

Input:

Enter array size: 5

Enter array elements:

a[0] = 6

a[1] = 4

a[2] = 1

a[3] = 5

a[4] = 2

Output:

The sum of an Array: 18

Ans:

// Online C compiler to run C program online

```
#include <stdio.h>
```

```
void findSum(int arr[], int k) ;
```

```
int main() {  
    int k;  
    printf("Enter array size: ");  
    scanf("%d", &k);
```

```
    int arr[k];  
    printf("Enter array elements:\n");  
    for (int i = 0; i < k; i++) {  
        printf("a[%d] = ", i);  
        scanf("%d", &arr[i]);  
    }
```

```
    findSum(arr, k);  
    return 0;
```

```
}  
void findSum(int arr[], int k) {  
    int sum = 0;  
    for (int i = 0; i < k; i++) {  
        sum =sum+ arr[i];  
    }  
    printf("The sum of an Array: %d\n", sum);  
}
```

o/p:

Enter array size: 5

Enter array elements:

a[0] = 6

a[1] = 4

a[2] = 1

a[3] = 5

a[4] = 2

The sum of an Array: 18

=== Code Execution Successful ===

Q.2 Write a Program to find the length of the String by passing a string as an argument using UDF.

For example,

Input:

Enter any string: development

Output:

Length is: 11

Ans:

// Online C compiler to run C program online

```
#include <stdio.h>
```

```
#include <string.h>
```

```
int findLength(char k[]) {  
    return strlen(k);  
}
```

```
int main() {  
    char k[100];  
    printf("Enter any string: ");  
    scanf("%s", k);  
    int length = findLength(k);  
    printf("Length is: %d\n", length);  
    return 0;  
}
```

o/p:

Enter any string: development

Length is: 11

=== Code Execution Successful ===