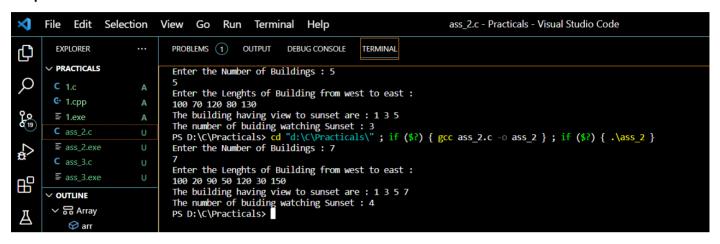
DSA Assignment 2

https://github.com/PrathamAsrani/DSA C/blob/master/assignment 2.c

```
#include<stdio.h>
#include <stdlib.h>
struct Array
    int *arr;
    int index, size;
};
 *Array Implimentation Function*/
void intialize(struct Array *a);
int create(struct Array *a);
int input(struct Array *a);
void display(struct Array a);
 *Array Implimentation Function*/
/*SunSet View*/
int SunSet_View(struct Array a);
int main(){
    struct Array array;
    intialize(&array);
    create(&array);
    SunSet_View(array);
    return 0;
void intialize(struct Array *a)
    a \rightarrow index = -1;
    printf("Enter the Number of Buildings : ");
    scanf("%d", &(a->size));
    printf("%d\n", a->size);
int create(struct Array *a)
    a->arr = (int *)malloc(a->size * sizeof(int));
    input(a);
int input(struct Array *a)
    int element;
    printf("Enter the Lenghts of Building from west to east : \n");
    for (int i = 0; i < a \rightarrow size; ++i)
        scanf("%d", &element);
        a->index++;
        *(a->arr + a->index) = element;
/oid display(struct Array a)
    for (int i = 0; i < a.size; ++i)
        printf("%d ", a.arr[i]);
    printf("\n");
int SunSet_View(struct Array a){
    int count = 0;
    printf("The building having view to sunset are : "); for(int i = 0; i < a.size; i++){
        if(i == 0){
            count++;
            printf("%d ", i+1);
```

```
}else if(i>0 && i < a.size-1){
         if(a.arr[i] < a.arr[i+1]){
            printf("%d ", i+2);
            count++;
        }
    }
    printf("\nThe number of building watching Sunset : %d\n", count);
}</pre>
```

Output:



Result: Hence we successfully used Array ADT to check whether the number of building having sunset view.