

Question no-1: Write a C program to  
read and print elements of array

```
#include <stdio.h>

int main() {
    int n, i;

    printf("Enter number of elements: ");

    scanf("%d", &n);

    int arr[n];

    printf("Enter %d elements:\n", n);

    for(i = 0; i < n; i++) {
        scanf("%d", &arr[i]);
    } printf("Array elements are:\n");

    for(i = 0; i < n; i++) {
        printf("%d ", arr[i]);
    } printf("\n");

    return 0;
}
```

Output:

```
Enter number of elements: 4
Enter 4 elements:
1 34 5 5
Array elements are:
1 34 5 5

=== Code Execution Successful ===
```

Question no-2: Write a C program to  
print all negative elements in an array. ....

```
#include <stdio.h>

int main() {
    int n, i;
    printf("Enter number of elements: ");
    scanf("%d", &n);
    int arr[n];
    printf("Enter %d elements:\n", n);
    for(i = 0; i < n; i++) {
        scanf("%d", &arr[i]);
    }
    printf("Negative elements in the array are:\n");
    for(i = 0; i < n; i++) {
        if(arr[i] < 0) {
            printf("%d ", arr[i]);
        }
    }
    printf("\n");
    return 0;
}
```

```
Enter number of elements: 4
Enter 4 elements:
4 -5 -5 -6
Negative elements in the array are:
-5 -5 -6
```

=== Code Execution Successful ===

Question no-3: Write a C program to

find sum of all array elements.

```
#include <stdio.h>

int main() {
    int n, i, sum = 0;
    printf("Enter number of elements: ");
    scanf("%d", &n);
    int arr[n];
    printf("Enter %d elements:\n", n);
    for(i = 0; i < n; i++) {
        scanf("%d", &arr[i]);
    }
    for(i = 0; i < n; i++) {
        sum += arr[i];
    }
    printf("Sum of all array elements = %d\n", sum);
    return 0;
}
```

Output:

```
Enter number of elements: 4
Enter 4 elements:
3 4 -5 6
Sum of all array elements = 8

=== Code Execution Successful ===
```

Question no-4: Write a C program to  
find maximum and minimum element  
in an array.

```
#include <stdio.h>

int main() {
    int n, i, max, min;

    printf("Enter number of elements: ");
    scanf("%d", &n);

    int a[n];

    printf("Enter elements: ");
    for(i = 0; i < n; i++) scanf("%d", &a[i]);

    max = min = a[0];

    for(i = 1; i < n; i++) {
        if(a[i] > max) max = a[i];
        if(a[i] < min) min = a[i];
    }

    printf("Max = %d\nMin = %d\n", max, min);

    return 0;
}
```

Output:

```
Enter number of elements: 5
Enter elements: 333 343 342 333 200
Max = 343
Min = 200
```

```
=== Code Execution Successful ===
```

Question no-5: Linear search

```
#include<stdio.h>

int main(){
    int flag =0, i, search_value, a[20] = {10,2,-1,0,-3,9};
    printf("Enter search value: ");
    scanf("%d", &search_value);
    for(i=0; i<6; i++){
        if(search_value == a[i]){
            f
            lag = 1;
            break;
        }
    }
    if(flag == 1){
        printf("Value is found");
    }
    else{
        printf("Value not found");
    }
    return 0;
}
```

Output:

```
Enter search value: 8
Value is found
```

```
=== Code Execution Successful ===
```