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Ques – 1: Find the maximum element in the array

Ans -

```
#include<stdio.h>
int main(){
    int arr[] = {25, 11, 7, 99, 56};
    // calculating the length of the array
    int length = sizeof(arr)/sizeof(arr[0]);

// maximum number in an array :
    for (int i = 0; i < length; i++) {
        if (arr[0] < arr[i]) {
            arr[0] = arr[i];
        }
    }

    printf("Maximum element in the array is : %d", arr[0]);

    return 0;
}</pre>
```

# Output -

```
PS C:\Users\NitinOP\Desktop\eval 1> cd "c:\Users\NitinOP\Desktop\eval 1\" ; if ($?) { gcc Ques1.c -o Ques1 } ; if ($?) { .\Ques1 }
Maximum element in the array is : 99
```

# Ques – 2: Find the minimum element in the array

Ans -

```
#include<stdio.h>
int main(){
   int arr[] = {24, 11, 7, 99, 56};
   // calculating the length of the array
   int length = sizeof(arr)/sizeof(arr[0]);
   // minimum number in an array :
```

```
for (int i = 0; i < length; i++) {
    if (arr[i] < arr[0]) {
        arr[0] = arr[i];
    }
}
printf("minimum element in the array is : %d", arr[0]);
return 0;
}</pre>
```

#### Output -

```
PS C:\Users\NitinOP\Desktop\eval 1> cd "c:\Users\NitinOP\Desktop\eval 1\" ; if
($?) { gcc Ques2.c -o Ques2 } ; if ($?) { .\Ques2 }
minimum element in the array is : 7
```

## Ques 3 - Insertion and Deletion of an element in an array

Ans -

```
#include<stdio.h>
int main(){
    int n, pos, i;
    int arr[100];
    printf("Enter the size of the array (1 to 100) : ");
    scanf("%d", &n);

// inserting the elements in the array
for (i = 0; i < n; i++) {
        printf("Enter the element %d : ", i + 1);
        scanf("%d", &arr[i]);
}

printf("\nInsertion is completed\n");

// deleting the element in the array
printf("Enter the element number you want to delete: \n ");
scanf ("%d", &pos);

if (pos >= n + 1) {
```

```
printf ("\nDeletion is not possible in the array\n");
} else {

for (i = pos - 1; i < n -1; i++) {
    arr[i] = arr[i+1];
}

printf ("\nArray after deleting the element\n");

// Array after deleting the element
for (i = 0; i < n - 1; i++) {
    printf (" arr[%d] = ", i);
    printf (" %d \n", arr[i]);
    }
}

return 0;
}</pre>
```

## Output

```
PS C:\Users\NitinOP\Desktop\eval 1> cd "c:\Users\NitinOP\Desktop\eval 1\" ; if
($?) { gcc Ques3.c -o Ques3 } ; if ($?) { .\Ques3 }
Enter the size of the array (1 to 100) : 5
Enter the element 1 : 23
Enter the element 2 : 43
Enter the element 3 : 55
Enter the element 4 : 77
Enter the element 5 : 89
Insertion is completed
Enter the element number you want to delete:
3
Array after deleting the element
 arr[0] = 23
 arr[1] = 43
 arr[2] = 77
 arr[3] = 89
```

Ques: 4 - Search an element in an array and display its position in array.

Ans -

```
#include<stdio.h>
int search(int arr[], int length, int target) {
       for (int i = 0; i < length; i++)</pre>
            if (arr[i] == target)
                return i;
            return -1;
    }
int main(){
    int arr[] = {32, 11, 67, 98, 56};
    int target = 98;
    int length = sizeof(arr)/sizeof(arr[0]);
    int position = search(arr, length, target);
    if (position == -1) {
        printf("Element not found");
    else {
        printf("Element found at index : %d", position);
    return 0;
```

#### Output –

```
PS C:\Users\NitinOP\Desktop\eval 1> cd "c:\Users\NitinOP\Desktop\eval 1\"; if ($?) {
gcc Ques4.c -o Ques4 }; if ($?) { .\Ques4 }
Element found at index : 3
```