## 1. Find Maximum Value in an Array

```
#include <stdio.h>

int main() {
    int n, i, max;
    int arr[100];

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

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

    max = arr[0];
    for(i = 1; i < n; i++) {
        if(arr[i] > max)
            max = arr[i];
    }

    printf("Maximum value = %d\n", max);
    return 0;
}
```

Example Output:

```
Enter number of elements: 5
Enter 5 elements:
3 8 1 9 2
Maximum value = 9
```

## 2. Calculate Sum of Array Elements

```
#include <stdio.h>

int main() {
    int n, i, sum = 0;
    int arr[100];

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

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

    printf("Sum of array elements = %d\n", sum);
    return 0;
}
```

Example Output:

```
Enter number of elements: 4
Enter 4 elements:
10 20 30 40
Sum of array elements = 100
```

### 3. Reverse an Array

```
#include <stdio.h>

int main() {
    int n, i;
    int arr[100];

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

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

    printf("Array in reverse order:\n");
    for(i = n - 1; i >= 0; i--) {
        printf("%d ", arr[i]);
    }

    return 0;
}
```

Example Output:

Enter number of elements: 5
Enter 5 elements:
1 2 3 4 5
Array in reverse order:
5 4 3 2 1