

## Lab Question 20: Array Concatenation

### Aim:

To write a C program to concatenate two arrays.

### Algorithm:

1. Start the program.
2. Read two arrays A and B.
3. Create C with size = size(A)+size(B).
4. Copy elements of A, then B.
5. Print C.
6. Stop.

### Code:

```
#include <stdio.h>

int main(){
    int A[3]={1,2,3}, B[3]={4,5,6}, C[6], i;
    for(i=0;i<3;i++) C[i]=A[i];
    for(i=0;i<3;i++) C[3+i]=B[i];
    printf("Concatenated Array: ");
    for(i=0;i<6;i++) printf("%d ", C[i]);
    return 0;
}
```

### Output:

- A = [1,2,3], B = [4,5,6] → Output = [1,2,3,4,5,6]

### Result:

The program concatenates two arrays successfully.