

## Lab 5 - Pointers

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1. Write a C Program to Find Largest Element in an Array

sample output:

```
Enter the number of elements (1 to 100): 5
Enter number1: 34.5
Enter number2: 2.4
Enter number3: -35.5
Enter number4: 38.7
Enter number5: 24.5
Largest element = 38.70
```

2. Write a C Program Swap Numbers in Cyclic Order Using Call by Reference

sample output:

```
Enter a, b and c respectively: 1
2
3
Value before swapping:
a = 1
b = 2
c = 3
Value after swapping:
a = 3
b = 1
c = 2
```

3. Write a C Program to Find Transpose of a Matrix

sample output:

```
Enter rows and columns: 2
3

Enter matrix elements:
Enter element a11: 1
Enter element a12: 4
Enter element a13: 0
Enter element a21: -5
Enter element a22: 2
Enter element a23: 7

Entered matrix:
1  4  0
-5  2  7
```

```
Transpose of the matrix:
```

```
1  -5
```

```
4   2
```

```
0   7
```

#### 4. Write a C Program to Find Largest Number Using Dynamic Memory Allocation

sample output:

```
Enter the total number of elements: 5
```

```
Enter number1: 3.4
```

```
Enter number2: 2.4
```

```
Enter number3: -5
```

```
Enter number4: 24.2
```

```
Enter number5: 6.7
```

```
Largest number = 24.20
```