

# lab 3

date:24/09/2025

// 32. PROGRAM TO FINDOUT MAX AND SECOND MAX FROM 'N' NOS .

```
#include <stdio.h>
```

```
int main()
```

```
{
```

```
    int n, num, max1, max2;
```

```
    printf("Enter the number of elements (N): ");
```

```
    scanf("%d", &n);
```

```
    printf("Enter the numbers:\n");
```

```
    scanf("%d", &max1);
```

```
    scanf("%d", &num);
```

```
    if (num > max1)
```

```
    {
```

```
        max2 = max1;
```

```
        max1 = num;
```

```
    }
```

```
    else
```

```
    {
```

```
        max2 = num;
```

```
    }
```

```
    for (int i = 2; i < n; i++)
```

```
    {
```

```
        scanf("%d", &num);
```

```
        if (num > max1)
```

```
{  
    max2 = max1;  
    max1 = num;  
}  
if (num > max2)  
{  
    max2 = num;  
}  
}  
  
printf("1st maximum = %d\n", max1);  
printf("2nd maximum = %d\n", max2);  
  
return 0;  
}
```

C 32\_max1\_max2.c > main()

```
1 // 32. PROGRAM TO FINDOUT MAX AND SECOND MAX FROM 'N' NOS . .
2 #include <stdio.h>
3
4 int main()
5 {
6     int n, num, max1, max2;
7
8     printf("Enter the number of elements (N): ");
9     scanf("%d", &n);
10
11     printf("Enter the numbers:\n");
12     scanf("%d", &max1);
13     scanf("%d", &num);
14
15     if (num > max1)
16     {
17         max2 = max1;
18         max1 = num;
19     }
20     else
21     {
22         max2 = num;
23     }
24
25     for (int i = 2; i < n; i++)
26     {
27         scanf("%d", &num);
28         if (num > max1)
29         {
30             max2 = max1;
31             max1 = num;
32         }
33         if (num > max2)
34         {
35             max2 = num;
36         }
37     }
38
39     printf("1st maximum = %d\n", max1);
40     printf("2nd maximum = %d\n", max2);
41
42     return 0;
43 }
```

```
PS C:\Users\Sumit\Desktop\vscode\clg> cd
rFile.c -o tempCodeRunnerFile } ; if ($?)
Enter the number of elements (N): 5
Enter the numbers:
65
55
45
2
8
1st maximum = 65
2nd maximum = 55
PS C:\Users\Sumit\Desktop\vscode\clg>
```