

C PROGRAMMING LEARN WITH ME

Example 1: Using if Statement

```
#include <stdio.h>
int main() {
    double n1, n2, n3;
    printf("Enter three different numbers: ");
    scanf("%lf %lf %lf", &n1, &n2, &n3);

    // if n1 is greater than both n2 and n3, n1 is the largest
    if (n1 >= n2 && n1 >= n3)
        printf("%.2f is the largest number.", n1);

    // if n2 is greater than both n1 and n3, n2 is the largest
    if (n2 >= n1 && n2 >= n3)
        printf("%.2f is the largest number.", n2);

    // if n3 is greater than both n1 and n2, n3 is the largest
    if (n3 >= n1 && n3 >= n2)
        printf("%.2f is the largest number.", n3);

    return 0;
}
```

Example 2: Using if...else Ladder

```
#include <stdio.h>
int main() {
    double n1, n2, n3;
    printf("Enter three numbers: ");
    scanf("%lf %lf %lf", &n1, &n2, &n3);

    // if n1 is greater than both n2 and n3, n1 is the largest
    if (n1 >= n2 && n1 >= n3)
        printf("%.2lf is the largest number.", n1);
```

```

    // if n2 is greater than both n1 and n3, n2 is the largest
    else if (n2 >= n1 && n2 >= n3)
        printf("%.2lf is the largest number.", n2);

    // if both above conditions are false, n3 is the largest
    else
        printf("%.2lf is the largest number.", n3);

    return 0;
}

```

Example 3: Using Nested if...else

```

#include <stdio.h>
int main() {
    double n1, n2, n3;
    printf("Enter three numbers: ");
    scanf("%lf %lf %lf", &n1, &n2, &n3);

    if (n1 >= n2) {
        if (n1 >= n3)
            printf("%.2lf is the largest number.", n1);
        else
            printf("%.2lf is the largest number.", n3);
    } else {
        if (n2 >= n3)
            printf("%.2lf is the largest number.", n2);
        else
            printf("%.2lf is the largest number.", n3);
    }

    return 0;
}

```

The output of all these programs above will be the same.

```
Enter three numbers: -4.5
3.9
5.6
5.60 is the largest number.
```

