ASSIGNMENT 2

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A nested if in C is an if statement that is the target of another if statement. Nested if statements means an if statement inside another if statement. i.e, we can place an if statement inside another if statement.

In C **if-else-if ladder** helps user to decide from among multiple options. The C if statements are executed from the top down.

As soon as one of the conditions controlling the if is true, the statement associated with that if is executed, and the rest of the C else-if ladder is bypassed. If none of the conditions is true, then the final else statement will be executed.

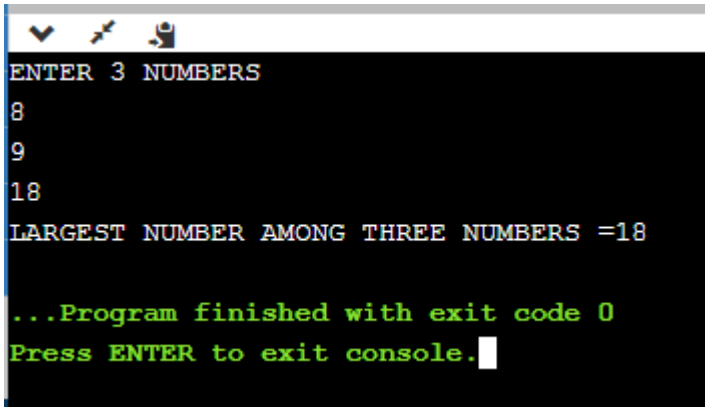
1

```
#include <stdio.h>

int main()
{ int n1,n2,n3;
printf("ENTER 3 NUMBERS \n");
scanf("%d",&n1);
scanf("%d",&n2);
scanf("%d",&n3);
if(n1>=n2)
{if(n1>=n3)
   printf("\nLARGEST NUMBER AMONG THREE NUMBERS =%d",n1);
   else
      printf("\nLARGEST NUMBER AMONG THREE NUMBERS =%d",n3);
}
else
{
   if(n2>=n3)
   printf("\nLARGEST NUMBER AMONG THREE NUMBERS =%d",n2);
else
printf("LARGEST NUMBER AMONG THREE NUMBERS =%d",n3);
}
   return 0;
}
```

```c
#include <stdio.h>

int main()
{ int n1,n2,n3;
printf("ENTER 3 NUMBERS \n");
scanf("%d",&n1);
scanf("%d",&n2);
scanf("%d",&n3);
if(n1>=n2)
{if(n1>=n3)
    printf("\nLARGEST NUMBER AMONG THREE NUMBERS =%d",n1);
    else
        printf("\nLARGEST NUMBER AMONG THREE NUMBERS =%d",n3);
}
else
{
    if(n2>=n3)
    printf("\nLARGEST NUMBER AMONG THREE NUMBERS =%d",n2);
else
printf("LARGEST NUMBER AMONG THREE NUMBERS =%d",n3);
}
    return 0;
}
```

```
input
ENTER 3 NUMBERS
4
8
5

LARGEST NUMBER AMONG THREE NUMBERS =8

...Program finished with exit code 0
Press ENTER to exit console.
```

2

```
#include <stdio.h>

int main()
{ int n1,n2,n3;
printf("ENTER 3 NUMBERS \n");
scanf("%d",&n1);
scanf("%d",&n2);
scanf("%d",&n3);
if(n1>=n2&&n1>=n3)
   printf("\nLARGEST NUMBER AMONG THREE NUMBERS =%d",n1);

else if(n2>=n1&&n2>=n3)
   printf("\nLARGEST NUMBER AMONG THREE NUMBERS =%d",n2);
else
printf("LARGEST NUMBER AMONG THREE NUMBERS =%d",n3);
   return 0;
}
```

```c
#include <stdio.h>

int main()
{ int n1,n2,n3;
printf("ENTER 3 NUMBERS \n");
scanf("%d",&n1);
scanf("%d",&n2);
scanf("%d",&n3);
if(n1>=n2&&n1>=n3)
    printf("\nLARGEST NUMBER AMONG THREE NUMBERS =%d",n1);

else if(n2>=n1&&n2>=n3)
    printf("\nLARGEST NUMBER AMONG THREE NUMBERS =%d",n2);
else
printf("LARGEST NUMBER AMONG THREE NUMBERS =%d",n3);
    return 0;
}
```