



# programming language(C)

Eng\Rana Mohamed Elbalka



# Function

```
return_type function_name( parameter list )  
{  
body of the function  
}
```



# Example 1

```
int addition(int num1, int num2)
{
    int sum;
    sum = num1+num2;

    return sum;
}
```

```
int main()
{
    int x, y;
    printf("Enter number 1: ");
    scanf("%d",&x);
    printf("Enter number 2: ");
    scanf("%d",&y);

    int res = addition(x, y);
    printf ("Output: %d", res);

    return 0;
}
```

```
C:\Users\user\Desktop\os\nfor\bin\Debug\nfor.exe
Enter number 1: 10
Enter number 2: 20
Output: 30
Process returned 0 (0x0)   execution time: 0.000 s
Press any key to continue.
```



## Example 2

```
double average(int x, int y){
    int sum = x + y ;
    return (double)sum/2;
}

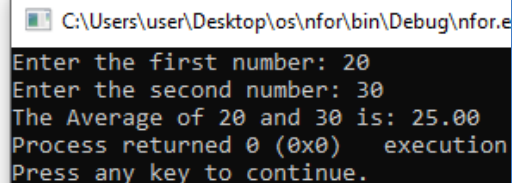
int main(){

    int number1, number2;
    double avg;

    printf("Enter the first number: ");
    scanf("%d",&number1);
    printf("Enter the second number: ");
    scanf("%d",&number2);

    avg = average(number1, number2);
    printf("The Average of %d and %d is: %.2f",number1,number2,avg);

    return 0;
}
```



C:\Users\user\Desktop\os\nfor\bin\Debug\nfor.e

```
Enter the first number: 20
Enter the second number: 30
The Average of 20 and 30 is: 25.00
Process returned 0 (0x0)   execution
Press any key to continue.
```





## Example 3

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

```
int main()
```

```
{
    int m = max(10, 5);
    printf("%d", m);
    return 0;
}
```

```
int max(int num1, int num2) {
```

```
    int result;
```


```
    if (num1 > num2)
        result = num1;
```

```
    else
        result = num2;
```

```
    return result;
```

```
}
```

```
"C:\Users\user\Desktop\os\section 4\bin
10
Process returned 0 (0x0)   exec
Press any key to continue.
```



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

```
int main()
```

```
{
```

```
    int a = 100;
```

```
    int b = 200;
```

```
    int m = max(a, b);
```

```
    printf("%d", m);
```

```
    return 0;
```

```
}
```

```
int max(int num1, int num2) {
```

```
    int result;
```

```
    if (num1 > num2)
```

```
        result = num1;
```

```
    else
```

```
        result = num2;
```

```
    return result;
```

```
}
```

```
"C:\Users\user\Desktop\os\section 4\bin\Deb
200
Process returned 0 (0x0)   executi
Press any key to continue.
```



*Thank  
You*