

Function

Writing your own

A simple example

A function not returning anything.

No parameters

Printing “Hello Cleveland” on stdout

Hello example

```
void hello()  
  
{  
  
    printf ("Hello");  
  
}
```

Hello example - with a header file

```
void hello()                                void hello() ;  
  
{  
  
    printf ("Hello");  
  
}  
  
// hello.c                                // hello.h
```

Hello example

```
void hello()  
  
{  
  
    printf ("Hello");  
  
}
```

A slightly more complex example

A function returning an integer value

No parameters

Returning the month (January - 1 December - 12)

Months left

```
int current_month()  
  
{  
  
    return 11;  
  
}  
  
  
// Kind of silly ... always November
```

Months left

```
int month_left()

{

    int current_month = current_month();

    return 12-current_month;

}

// current_month located in time-date.c / time-date.h
```


Months left

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

```
#include "time-date.h"
```

```
int month_left()
```

```
{  
  
    int this_month = current_month();  
  
    return 12 - this_month;  
  
}
```

Months left

```
int main ()  
  
{  
  
    printf("Current year: %d\n", current_year());  
  
    printf("Months left:  %d\n", month_left());  
  
    return(0);  
  
}
```

An even slightly more complex example

A function returning an integer value

Two parameters

Returning the maximum value of the two

Max

```
int max(int first, int second)
{
    if (first>second)
    {
        return first;
    }

    return second;
}
```

Max

```
int main ()  
  
{  
  
    printf("max:          %d\n", max(12, 13));  
  
    return(0);  
  
}
```