Enum in C

Enumeration is a user defined datatype in C language. It is used to assign names to the integral constants which makes a program easy to read and maintain. The keyword "enum" is used to declare an enumeration.

Here is the syntax of enum in C language,

```
enum enum_name{const1, const2, ....... };
```

The enum keyword is also used to define the variables of enum type. There are two ways to define the variables of enum type as follows.

```
enum week{sunday, monday, tuesday, wednesday, thursday, friday, saturday};
enum week day;
```

Here is an example of enum in C language,

Example

Live Demo

```c
#include<stdio.h>
enum week{Mon=10, Tue, Wed, Thur, Fri=10, Sat=16, Sun};
enum day{Mond, Tues, Wedn, Thurs, Frid=18, Satu=11, Sund};
int main() {
   printf("The value of enum week: %d\t%d\t%d\t%d\t%d\t%d\t%d\n\n",Mon , Tue, Wed, Thur, Fri, Sat, Sun);
   printf("The default value of enum day: %d\t%d\t%d\t%d\t%d\t%d\t%d",Mond , Tues, Wedn, Thurs, Frid, Satu, Sund);
   return 0;
}
```

Output

```
The value of enum week: 10111213101617
The default value of enum day: 0123181112
```

In the above program, two enums are declared as week and day outside the main() function. In the main() function, the values of enum elements are printed.

```
enum week{Mon=10, Tue, Wed, Thur, Fri=10, Sat=16, Sun};
enum day{Mond, Tues, Wedn, Thurs, Frid=18, Satu=11, Sund};
int main() {
   printf("The value of enum week: %d\t%d\t%d\t%d\t%d\t%d\t%d\n\n",Mon , Tue, Wed, Thur, Fri, Sat, Sun);
   printf("The default value of enum day: %d\t%d\t%d\t%d\t%d\t%d\t%d",Mond , Tues, Wedn, Thurs, Frid, Satu,     Sun
}
```