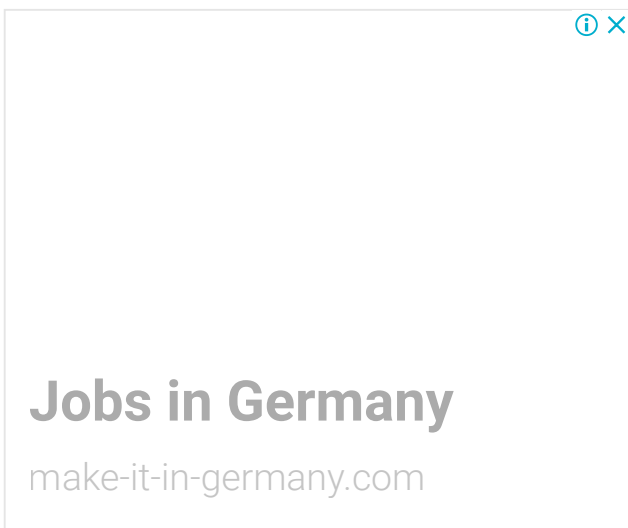# C++ Enumeration

Enum in C++ is a data type that contains fixed set of constants.

It can be used for days of the week (SUNDAY, MONDAY, TUESDAY, WEDNESDAY, THURSDAY, FRIDAY and SATURDAY) , directions (NORTH, SOUTH, EAST and WEST) etc. The C++ enum constants are static and final implicitly.

C++ Enums can be thought of as classes that have fixed set of constants.

Points to remember for C++ Enum

- enum improves type safety

- enum can be easily used in switch

- enum can be traversed

- enum can have fields, constructors and methods

- enum may implement many interfaces but cannot extend any class because it internally extends Enum class

C++ Enumeration Example

Let's see the simple example of enum data type used in C++ program.

⇧ SCROLL TO TOP

```cpp
#include <iostream>
using namespace std;
enum week { Monday, Tuesday, Wednesday, Thursday, Friday, Saturday, Sunday };
int main()
{
    week day;
    day = Friday;
    cout << "Day: " << day+1<<endl;
    return 0;
}
```

Output:

```
Day: 5
```

← Prev
Next →

⇧ SCROLL TO TOP