

## Enumerated Datatypes:

An enumeration is a user-defined data type consists of integral constants and each integral constant is give a name. Keyword enum is used to define enumerated data type.

**enum type\_name{ value1, value2,...,valueN };**

Here, type\_name is the name of enumerated data type or tag. And value1,value2,...,valueN are values of type type\_name.

By default, value1 will be equal to 0, value2 will be 1 and so on but, the programmer can change the default value.

// Changing the default value of enum elements

```
enum suit{
    club=0;
    diamonds=10;
    hearts=20;
    spades=3;
};
```

### **Declaration of enumerated variable**

Above code defines the type of the data but, no any variable is created. Variable of type enum can be created as:

```
enum boolean{
    false;
    true;
};

enum boolean check;
```

Here, a variable check is declared which is of type enum boolean.

### **Example of enumerated type**

```
#include <stdio.h>

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

int main(){
    enum week today;
    today=wednesday;
    printf("%d day",today+1);
    return 0;
}
```

Output

4 day