

Enumeration (or enum) in 'C'

Ques. What does Enumerated Type mean?

Enumerated type is a User-defined data type used in Computer programming to map a set of names to numeric values.

Enumerated data type Variable can only have value that are previously declared. In other words, they work with a finite list of values.

Enumerated data type helps make the Code more self-documenting & prevent programmers from writing illogical Code on Value of enumerators. Enumerated data also hides unnecessary details from programmers.

Examples program-

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

```
enum year { Jan, Feb, Mar, Apr, May, Jun,
            July, Aug, Sep, Oct, Nov, Dec };
```

```
int main ( )
```

```
{
```

```
    int i;
```

```
    for ( i = Jan ; i <= Dec ; i++)
```

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

```
    return 0;
```

```
}
```

Output :-

0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11

In this example, the for loop will run from $i=0$ to $i=11$, as initially the value of i is Jan which is 0 & the value of Dec is 11.