

1) What are enumerated data types

1) Enumeration (or enum) is a user-defined data type in C.

2) It is used to assign names to integer constant which makes a program easy to read and maintain.

3) The keyword enum is used to declare new enumeration types in C.

4) Enum declaration is follows:

```
enum flag (constant 1, constant 2, constants  
.....);
```

5) Variables of types enum can be defined in two ways

(a)

```
enum week { Mon, Tue, wed }  
enum week day;
```

(b)

```
enum week { Mon, Tue, wed } day;
```

For ex-

```
#include <stdio.h>  
enum week { Mon, Tue, wed, Thus, Fri,  
Sat, Sun };
```

```
int main ()
```

```
{
```

```
enum week day;
```

```
day = wed;
```

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

```
return 0;
```

```
}
```

output
2