Syntax of extern in C

The syntax to define an extern variable in C is just to use the extern keyword before the variable declaration.

```
extern data_type variable_name;
```

Properties of extern Variable in C

- When we write extern some_data_type some_variable_name; no memory is allocated. Only the property of the variable is announced.
- Multiple declarations of extern variable is allowed within the file. This is not the case with automatic variables.
- The extern variable says to the compiler "Go outside my scope and you will find the definition of the variable that I declared."
- The compiler believes that whatever that extern variable said is true and produces no error. Linker throws an error when it finds no such variable exists.
- When an extern variable is initialized, then memory for this is allocated and it will be considered defined.