**What is the size of a char data type:**

The size of a char data type is 1 byte long or 8 bits long. Therefore if it is a signed variable it can range from -128 to 127 but if it is unsigned it can range from 0 to 255

**What is the size of a short char data type:**

There is not such thing as a short char data type in C.A char is already 1 byte which is the smallest data type one can take. Adding a short to a char data type would mean it would be ½ of a byte which is impossible.

**What is the difference between a short and long data type:**

A short data type represents a variable that takes less memory then the regular data type, so a 4 byte integer with a short identifier in front of it will result in that integer taking up 2 bytes of memory however will result in the integer having a smaller range, the short byte effectively double the number of bytes per datatype. A long data type is an integer however it has a longer range and takes up more memory so a regular integer that takes up 4 bytes of memory may now take 8 bytes of space with the long identifier. The long data type doubles the number of bytes per datatype.

**Is there a Boolean data type in the c programming language**:

There is no Boolean data type in vanilla C without any libraries. One could create their own Boolean data type and define the data type to have values assigned to true and false.