

Objective:

- To get to know about floating point number representation in computer and its issues related to floating point numbers manipulation.

It is unthinkable that computer science undergraduate doesn't know about IEEE-754 format (Single Precision i.e float (32 bit) in C/C++) and double precision i.e. double (64 bit).

The link will help you understand the single precision format. It is recommended to go through the examples of converting a floating-point value into 32-bit pattern and vice versa given on the webpage.

The second and third link is a web program, which implements the theory of single precision format. It will help you to verify your conversion examples.

✚ **Link 1:** https://en.wikipedia.org/wiki/Single-precision_floating-point_format

✚ **Link 2:** <http://www.h-schmidt.net/FloatConverter/IEEE754.html>

✚ **Link 3:** <http://babbage.cs.qc.cuny.edu/IEEE-754.old/Decimal.html>

