Usage

The complex.h has a way to define imaginary numbers

for example

```
1+3i === 1 + 3*I
```

and the input must be change accordingly in the main() of the code

The FFT_cooley_tukey.c is the Float point implimentation of FFT

and fixed_FFT.c is the pure short int implimentation

The input for the fixed_point is generated in python with uniform random variable between 0 and 2 for better results and preventing overflow

The Q factor has been fixed to Q7.7 for equal weightage.

While running the FFT_cooley_tukey.c code, use the following command to skip errors while compiling math.h and complex.h

```
gcc FFT_cooley_tukey.c -lm
```