Changes made in Header file:

1) Changed the values of constants in the header file
    - Number of maximum satellites
    - Number of maximum channels
    - User motion size
    - Number of subframes
    - Wavelength and central frequency (changes to 1176.45 MHz)

Changes made in the main code:

1) Changed the logic of PRN code generation in codegen() function to construct NaVIC PRN codes.
    - Since each NaVIC satellite has different initial condition for generation of G2 polynomial, initial conditions are defined for each sv/prn according to ICD
2) Changes made in date2gps function: (This function is actually for date to irnss time conversion)
    - Changed starting year from 1980 to 1999
    - Number of days from Jan 1,1999 to August 22,1999 is 234 days. This value is subtracted to compute the number of days elapsed since Aug 21/Aug 22,1999
3) Changes made in gps2date function: (This function is actually for irnss to utc time conversion):
    - Number of leap days for NaVIC is 1542.
4) Changes made in eph2sbf() function:
    - Initialized various ephemeris parameters related to NaVIC.
    - For subframe creation, we assumed the first 30 bits and last 30 bits as 2 words respectively. And the remaining 292 bits divided into 8 words of 29 bits each.
    - In subframe 3 and 4 we are sending the null message (Message type 0) which is alternate 0s and 1s.
5) Changes made in readRinexNavAll function:
    - The navigation file for NaVIC satellites is in RINEX version 3.03 which has a different format from version 2. So we made appropriate changes to read the rinex file.

6) Commented the ionosphericDelay function since no ionospheric related data related to NaVIC satellites is there in rinex file.
7) Changes made in computeCodePhase function:
    - Since all the words per subframe is not of same length and have different time period, we used a flag to write the necessary conditions.
8) Changes made in checkSatVisibility function:
    - To increase the number of satellites visible, we wrote codes so that elevation is greater than 0 for all the satellites present in rinex file.
9) Added the calculateCRC24Q function to calculate CRC, fecEncoding function to compute the FEC. Also added other helping function like decimaltoBinary, appendBits to help in constructing the fec and crc.
10) Added the interleaver function.
11) Changes made in generateNavMessage:
    - Changed the timing parameter in g0.sec calculation
    - Made appropriate changes in codes for calculating week number and TOW count and placing them in subframe.
    - Called the crc function, combined the 292 data bits, called the fecCoding functions, added the sync word and created the master frame.
12) Made changes in allocatChannel function to read and do processing of satellites present in RINEX file.
13) Changes made in Generate baseband signals section of main function:
    - Changed the expression of path loss.
    - Used flags and conditional statements to do processing of chan[i].bit and chan[i].word since all words are not of same length.

Changes made in the Rinex navigation file: Original file is DECE_real_only navic file

1) In DECE_real_only navic_3 file, the satellites are arranged in ascending order of the PRN and descending order of Epoch time.
2) In DECE_real_only navic_4 file, the satellites are arranged in ascending order of the PRN and same Epoch time with only one set of all satellites.