

## FORMAT.C

The program is used to take a bit sequence and then transform them to either decimal representation or floating point numbers depending on the input entered by the user. The program uses different functions to compute exponent, significand and symbols in order to produce floating point numbers. Similarly, it uses other functions such as reverse to reverse the resulting string in order to produce the correct output. The functions toChar and charToInt are vital to convert the entered data into integers and then convert them again for the output. The function fromDec is used to convert decimal values into character strings using the reverse function to flip the bits. The function also takes into consideration the error inputs that the user might enter and takes actions accordingly. This program also uses the function 'free' to clear the used memory.