**Communication System**

**LAB # 07**

****

**FALL 2021**

**CSE402L-Digital Signal Processing**

Submitted by: **Ashfaq Ahmad**

Registration No: **19PWCSE1795**

Class Section: **B**

“On my honor, as student of University of Engineering and Technology, I have neither given nor received unauthorized assistance on this academic work.”

Student Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_

Submitted to:

**Prof. Ihsan Ul Haq**

February 16, 2022

**Department of Computer Systems Engineering**

**University of Engineering and Technology, Peshawar**

**Pseudo code:**

**STEP 1:** the signals are reproduced as they arrive.

**STEP 2:** plot the spectra of the signals as they arrive.

**STEP 3**: The signals are passed through a low pass filter and played.  
  
**STEP 4:** reproduce the signals after passing them through the filter.  
  
**STEP 5:** The signals are modulated to different carriers.  
  
**STEP 6:** The modulated signals are filtered in the defined bands and added.  
  
**STEP 7:** some noise is added to the transmitted signal.  
  
**STEP 8**: upon arrival each band is filtered.  
  
**STEP 9**: each recovered band is demodulated to return the signal to the baseband frequency.  
  
**STEP 10:** the recovered signal is passed through a low pass filter.  
  
**STEP 11:** play the reproduced signal after transmission.

**Flow Chart:**

**Block Diagram:**