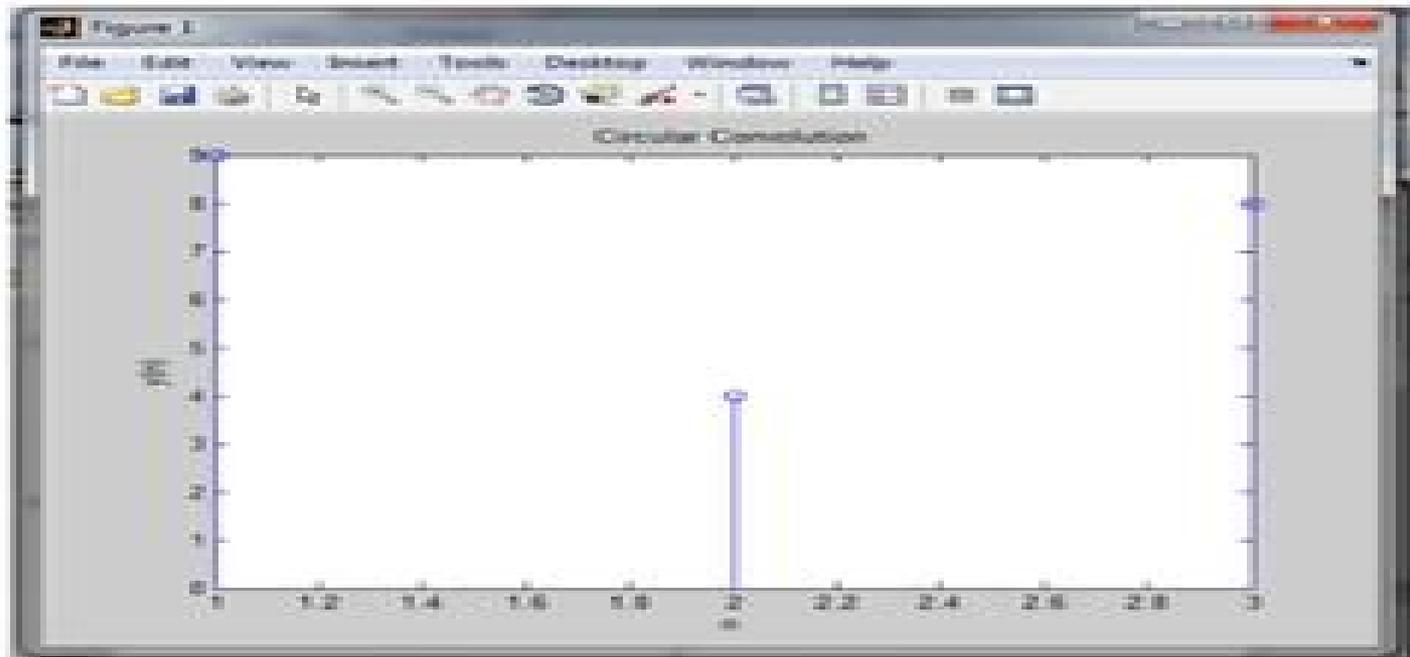


FIGURE:-



SAMPLE INPUT:-

enter the sequence $s(n) = [1 \ 2 \ 4]$
enter the sequence $h(n) = [1 \ 2]$
The output sequence is $y(n) = 9 \ 4 \ 8$

RESULTS :- Thus the program for circular convolution is written using MATLAB and

Dsp Lab Manual Using Matlab

Liyong Dong



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Digital Signal Processing Laboratory Experiments Using MATLAB Hardik Modi, 2014-03-24 Technical Report from the year 2014 in the subject Computer Science Technical Computer Science language English abstract This is Laboratory Manual of Digital Signal Processing All experiments are performed on MATLAB e g List of Experiments 1 To represent basic signals like Unit Impulse Ramp Unit Step Exponential 2 To generate discrete sine and cosine signals with given sampling frequency 3 To represent complex exponential as a function of real and imaginary part 4 To determine impulse and step response of two vectors using MATLAB 5 To perform convolution between two vectors using MATLAB 6 To perform cross correlation between two vectors using MATLAB

Digital Signal Processing with MATLAB Manual MD Ariful Islam, 2022-08-12 This laboratory manual deals with the basics of Digital Signal Processing DSP Lab experiment I hope this manual will be very useful for those who want to learn DSP by solving various problems Each program has been written in the MATLAB software according to the various questions and the output is shown step by step

LAB PRIMER THROUGH MATLAB® NAVAS, K. A., JAYADEVAN, R., 2014-02-19 This systematically designed laboratory manual elucidates a number of techniques which help the students carry out various experiments in the field of digital signal processing digital image processing digital signal processor and digital communication through MATLAB in a single volume A step wise discussion of the programming procedure using MATLAB has been carried out in this book The numerous programming examples for each digital signal processing lab image processing lab signal processor lab and digital communication lab have also been included The book begins with an introductory chapter on MATLAB which will be very useful for a beginner The concepts are explained with the aid of screenshots Then it moves on to discuss the fundamental aspects in digital signal processing through MATLAB with a special emphasis given to the design of digital filters FIR and IIR Finally digital communication and image processing sections in the book help readers to understand the commonly used MATLAB functions At the end of this book some basic experiments using DSP trainer kit have also been included Audience This book is intended for the undergraduate students of electronics and communication engineering electronics and instrumentation engineering and instrumentation and control engineering for their laboratory courses in digital signal processing image processing and digital communication Key Features Includes about 115 different experiments Contains several figures to reinforce the understanding of the techniques discussed Gives systematic way of doing experiments such as Aim Theory Programs Sample inputs and outputs Viva voce questions and Examination questions

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Fundamentals of DSP Sampling Discrete Time Signals and Systems Z Transform Discrete Fourier Transform Linear Time Invariant Filter Realization FIR Filter Design IIR Filter Design Quantization Effects in IIR Filters

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