This lab demonstrates 16 DAM modulation and demodulation with AWGN with SNR Varying between 10 and 10 with steps of 1. Rendem input bits is generated soing word in "randin" and mapped to a constellation points for gray labelling and without gray Cabelling.
This lab demenstraes 16 DAM modulation and clemodulation with AWGN with SNR Varying between -10 and 10 with Steps of 1 Random input bits is generated using want in "randin" and mapped
modulation and clemodulation with AWGN with SNR Varying between -10 and 10 with Steps of 1 Random input bits is generated using want in "randin" and mapped
modulation and clemodulation with AWGN with SNR Varying between -10 and 10 with Steps of 1 Random input bits is generated using want in "randin" and mapped
AWGN with SNR Varying between -10 and 10 with steps of 1 Random input bits is generated using wand in "randin" and mapped
-10 and 10 with steps of 1 Random input bits is generated using wand in "randin" and mapped
Random input bits is generated using word in "randin" and mapped
to a constellation points for gray labelling and without gray Cabelling
Labelling and without gray Cabelling
labelling and without gray Cabelling
Without gray Code:
0011 0111 1011 1111
0010 0110 1010 1110
0001 0101 1001 1101
0000 0100 1000 1100
37 11 15
2 6 10 14
5 7 13
1 8 12
with gray Code:
00/0 0110 1110 /010
0001 0101
2000 0/100
2 6 19 10
3 7 15 11
0 4 12 8

Page No.: To calculate BER for each gray and without gray labelling! generate nordern signal Jererate Awhn releised Signal (y) > STW Cherk whether the neveried value lies near or far was away fum the constellation point. , If there is an error increment the enercount. From the plot it can be seen that BER is more for gray label and without gray label for low Sava value.