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Subject: - Digital Communication

LAB REPORT 9

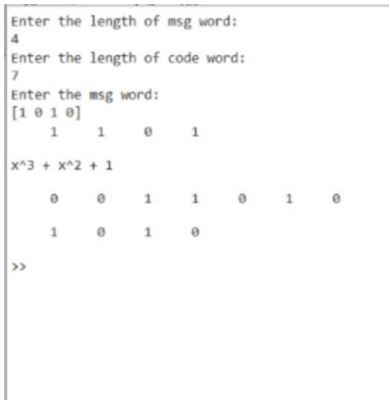
Aim: To study encoding and decoding of cyclic block code using MATLAB.

Code:

```
% BT19ECE010 Yashkumar Ingrodiya



clc;
clear all;
close all;

k=input('Enter the length of msg word: ');
n=input('Enter the length of code word: ');
m=input('Enter the msg word: ');

G=cyclpoly(n,k,'max');
gx=poly2sym(G);

C=encode(m,n,k,'cyclic',G);
D=decode(C,n,k,'cyclic',G);

disp(G)
disp(gx)
disp(C)
disp(D)
```

Screenshot:

Output:



Conclusion: Hence, encoding and decoding of circular blocks has been studied and code has been implemented.