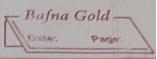
Bafna Gold -CYCLE-2 Experiment -1 Asm: To we've sprogon for eserce deterting code using CRI -CCITT (16-biles) Hindude 4stdions # induder String. h7 # active is stilen (poly) char data [20]: char cher value [30] than polyllo]; but data length?;;; yord yor who lastillary tor(j=1; g < N; j++) chockvalue[j] = (chock value[j] = = poly [j] vosa receiver purity " Enlaw the received do to "")" scanf ("1, 9", data); print ("Data received: 1.8" data); prompt (" In Error delected \n") purity (" In RIO cruor detected In"); eoid cree) for (120; (KN; 174) checkrolue(i) = data [i]; if (checkmonto)=="1") XOR()

for( 9 20 9 | < N -19 19++ check +alere [] = deck value [;+1]; check value [j] = dato [j++]; Justile (2 = zdota length + N+1); int main ) puinty ("In Enter dolla to be transmisted ?"), scanf ("bs", data); ("In Enterthe divisor polynomial:") scanf (40/08", poly); dada length = stren (data); torfizdeta length; i < detalen gth + tor; 9++ printy "In Data padded with no remon: bs data), crc(); prints[" \n (RC value is 1/8"), check-value); for 10-data length; idotalength thit! itt data[i] = chick value [i-data lingth]; printy "in Final dataward to be sent: #15) data)'s receiver ()'s return 0; 4 Osutput! Enlay the data to be transmitted : 101100 Exper the durisor polynomial :1001 Data padded with n-1 Tenoer: 101100000 CRC value is:001 Final codeword to be sent: 101100001 Enter the secrimed data: 101100001 November detected. Enter the data to be transmitted :10/0/10 Enlyto dimino polynomial (1011



	Basna Gold— Date: Page:
	Data padded with n-1 zeroer: 101010000 Cer volue is; 001
	Final and word to be yent: 101010001
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```
CODE:
#include<stdio.h> int arr[17];
void xor(int x[], int y[])
{
   int k=0;
   for(int i=1;i<16;i++)
   \{ if(x[i]==y[i]) \}
           arr[k++]=0;
       else
           arr[i]=1;
   }
}
void main()
{ int dd[17],div[33],ze[17],i,k;
   printf("Enter the dataword n"); for(i=0;i<17;i++)
   scanf("%d",&div[i]);
   for(i=i;i<33;i++) div[i]=0;
   for(i=0;i<17;i++) ze[i]=0; printf("Enter</pre>
   dividend n"); for(i=0;i<17;i++)
       scanf("%d",&dd[i]);
   i=0; k=0;
       for(i=i;i<17;i++)
           arr[k++]=div[i];
   while(i<33)
   { if(arr[0]==0)
           xor(arr,ze);
       else
```

```
xor(arr,dd);
       arr[16]=div[i++];
   }
   k=0; for(i=17;i<33;i++)
   div[i]=arr[k++];
   printf("Codeword: "); for(i=0;i<33;i++)</pre>
       printf("%d",div[i]);
   for(i=0;i<17;i++)
      arr[i]=0; printf("\nAt receiver end \n");
    k=0;
       for(i=i;i<17;i++)
           arr[k++]=div[i];
   while(i<33)
   { if(arr[0]==0)
       xor(arr,ze);
       else
           xor(arr,dd);
       arr[16]=div[i++];
   }
   k=0; for(i=17;i<33;i++)
   div[i]=arr[k++];
   printf("Codeword: ");
       for(i=0;i<33;i++)
                      printf("%d",div[i]);
}
```

## C:\Users\Admin\Desktop\1BM21CS047\ADA\CRC16\bin\Debug\CRC16.exe

Enter the dataword 10110011110010111

Enter dividend

1 0 0 0 1 0 0 0 0 0 1 0 0 0 1 1 Codeword: 1011001111001011100000000000011011

At receiver end

Codeword: 101100111100101111000000000000000000

Process returned 1 (0x1) execution time : 49.507 s

Press any key to continue.