EXPERIMENT-8 29/12/22 AIM: Write a perogram for error detection using CRC 16 bit. import java util."; void dir (int a [], int k) int count = 0; for (int i=0; i<k; i++) if (a[i] == gn[o]) for (int j=i; j<17+i; j++) a[j] = a[j]^gn [count ++); count = 0; public static void main (String args[]) int a [] = new int [50]; int b[] = new inl [50]; int len, L; cre ob = new cre (); System out println (\*: "Enter the length Scanner scan = new scanner (System.in);

len = scan nextInt (); System out parintly ("Enter the dataword) a[i] = ecan nert Inter; for (int i=0; i < 16; i++) a[lean ++]= 0; for (int i= 0; i<len; i++) b[i] = a[i]; ob. div (a, K); for (int i = 0; i < len; i++)

a [i] = a [i] ^ b[i].

System. out paintlu (' Data to be
transmitted:").

for (int i = 0; i < len; i++)

§ System. out. penintln [a[i]+"") System out printle (); System out printle ("Enter the recieved data") for (int i = 0; i < len; i + t) a[i] - scan. heat Int ();

	PAGE NO: DATE:
	ob. div (a, K); for (int i = 0; i < len; i++)
	for (int i = 0; i < leu; i++)
	O &
	if (a[i]!=0)
	2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -
	llag = 1:
	flag = 1; breal;
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· · · · · · ·	harten Committee in Market to the Trail
31	il (Iloo = = 1)
N.	Cutous Jourt perintle (" everon in data!");
	also
	if (flag = = 1) System - out. println (" evoron in data!"); else System.out. println (" no erron");
200	System Cook
	1 200-3000-40201 66 40
	Tubera Parkill water the
	OUTPUT:
	Enter the length of data frame:
	1 + 1 7 × 25/14/20 0 = 10 = 1/3 x 1 = 20 m
	Enter the dataword:
	Data output:
	1011011000101101000
	Data recieved:
	10111011000101101000
	no evolor.
	1/3023
	13/11/2