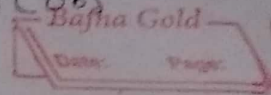


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Cycle -02

Lab-02

```
import java.util.*;
public class coc
{
    public static int n;
    public static void main(String[] args)
    {
        Scanner in = new Scanner(System.in);
        coc ob = new coc();
        String codeCopy, dec, zero = "0000000000000000";
        System.out.println("Enter message");
        code = in.nextLine();
        n = code.length();
        copy = code;
        code += zero;
        code = ob.divide(code);
        System.out.println("message = " + copy);
        copy = copy.substring(0, n) + code.substring(n);
        System.out.println(code.substring(n));
        Sopl("transmitted term is " + copy);
        Sopl("Enter received data");
        dec = in.nextLine();
        if (zero.equals(ob.divide(dec).substring(n)))
            Sopl("correct bits received");
        else
            Sopl("Received term contain one or more error");
        in.close();
    }
}
```

(01)

Rudh

Public String divide (String S)

{ int i, j;

Char x;

String div = "100010000000100001";

for (i = 0; i < n; i++)

{ x = S.charAt(i);

for (j = 0; j < 17; j++)

{ if (x == '1')

{ if (S.charAt(i+j) != div.charAt(j))

S = S.substring(0, i+j) + "1" + S.substring(i+j+1);

else

S = S.substring(0, i+j) + "0" + S.substring(i+j+1);

} } }

return S;

}

}

②

Proof.