

Codif - Decod

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program codif;
var
  fin,fout: file of char;
  c,c1,c2:char;
  nomf,ext,ult:string[80];
  i,parcial:integer;
  tabla_char:array[0..15] of char;
begin
  tabla_char[0]:='0';tabla_char[1]:='1';tabla_char[2]:='2';tabla_char[3]:='3';
  tabla_char[4]:='4';tabla_char[5]:='5';tabla_char[6]:='6';tabla_char[7]:='7';
  tabla_char[8]:='8';tabla_char[9]:='9';tabla_char[10]:='A';tabla_char[11]:='B';
  tabla_char[12]:='C';tabla_char[13]:='D';tabla_char[14]:='E';
  tabla_char[15]:='F';
  ClrScr;
  Write('Fichero entrada:'); Readln(nomf);
  Write('Extensi'-'n:'); Readln(ext);
  Assign(fin,nomf+'.'+ext); Reset(fin);
  ult:='.01';
  i:=1; parcial:=0;
  ult[2]:=chr( i div 10 + ord('0') );
  ult[3]:=chr( i mod 10 + ord('0') );
  Assign(fout,nomf+ult); Rewrite(fout);
  Gotoxy(8,12); Write('Desdoblado en el fichero: ',ult);
  while not eof(fin) do
    begin
      Read(fin,c);
      c1:=tabla_char[ord(c) div 16]; c2:=tabla_char[ord(c) mod 16];
      Write(fout,c1,c2);
      parcial:=parcial+2;
      if parcial=10240
      then begin
        Close(fout);
        parcial:=0; i:=i+1;
        ult[2]:=chr( i div 10 + ord('0') );
        ult[3]:=chr( i mod 10 + ord('0') );
        Assign(fout,nomf+ult); Rewrite(fout);
        Gotoxy(8,12); Write('Desdoblado en el fichero: ',ult);
        end
      end;
  Gotoxy(1,3); Write('Total ficheros:',i:3)
end.
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```

program decod;
var
  fin,fout:file of char;
  c1,c2,c:char;
  nombrefich,ext,orden:string[80];
  num_files,i:integer;
  tabla_hex:array[char] of byte;
begin
  tabla_hex['0']:=0; tabla_hex['1']:=1; tabla_hex['2']:=2; tabla_hex['3']:=3;
  tabla_hex['4']:=4; tabla_hex['5']:=5; tabla_hex['6']:=6; tabla_hex['7']:=7;
  tabla_hex['8']:=8; tabla_hex['9']:=9; tabla_hex['A']:=10; tabla_hex['B']:=11;
  tabla_hex['C']:=12; tabla_hex['D']:=13; tabla_hex['E']:=14; tabla_hex['F']:=15;
  ClrScr;
  Write('Nombre del fichero:'); Readln(nombrefich);
  Write('Extens/on:'); Readln(ext); ext:='.'+ext;
  Write('Total ficheros:'); Readln(num_files);
  orden:='.01';
  Assign(fout,nombrefich+ext); Rewrite(fout);
  for i:=1 to num_files do
    begin
      orden[2]:=chr( i div 10 + ord('0') );
      orden[3]:=chr( i mod 10 + ord('0') );
      Assign(fin,nombrefich+orden); Reset(fin);
      Gotoxy(8,12); Write('Concatenando el fichero: ',orden);
      while not eof(fin) do
        begin
          Repeat
            Read(fin,c1)
          until (c1 in ['0'..'9','A'..'F']) or eof(fin);
          if not eof(fin)
          then begin
            Read(fin,c2); c:=chr(tabla_hex[c1]*16+tabla_hex[c2]);
            Write(fout,c)
          end
        end;
      Close(fin)
    end
  end.

```