```
a) 1111 1111 (2) =
                                     16:
                                           0000 - 0
                                          0001 - 1
                                          ..10 - 2
 (16) DXFF4
                                           ..11 -
                                           - 1001 -
  (8) 0377
                                           (0( _
 (10) 255 -od von widai:)
                                           110_
                                           111 - 7
                                           1000 - 8
                                           1001 - 9
 b) 1100 0011 (z) =
                                           1010 - A
   3 0 3 (8) = 0303 (8)
                                           1011 -B
                                           1100 - C
    0x C 3h (16) =
                                           11.1 -D
                                           111. -E
                                           IIII-F
   (10) = 0xC3(10) = "C".16+3=12.16+3=
       = 120+36+36+3= 195 (10)
                                            11 -34
 () 0001,0001 (2)
(8) \Rightarrow 00.00.001 = 021 (8)
(16) > 0×11h = 0×11h (16)
(10) > OX11 > "14-16+"1" = 16+1=17(10)
 d) oou 1100 (2)
 (8)00.111.100 = 074 (8)
(16) oou woo = 0x3C4
 (10) 0x3Ch 7(10) = "3". 16+" = 48+44 = 48+12=60 (10)
 algory m Konversi 3 cythorego her na hanty oct.
 ( ja we luty oct.) ABC - Hex defg-oct.
```

ABC = xxxx.xxxx.xxxx (2) = defg xxx.xxx.xxx.xxx (8)

	Bx Bx41 Bx+2
liaba 4 164	BCD = 567
liaba "8"	efgh=?
	ta tietu tie
211.4:	\ \ \ \ \

- 1) Waytaj najmodno "16" D do rejestru AH HOV AH, [BX+2] A: "[XXXX]....].... AH | AL
- - 4) 2apt or najmited up hings wynhin MOV [BX+12], AL;
 - 5) Presid AX 01 bit is pravo SHR AX,1 A: | X.... | X... | X... | X... | X... | X.
 - 6) 20Tadry Koleins house do AH MOU AH, [BX+1] A: |XXXX|X....|.XX

9) 2apier wynik de drugiege znahn "84 9= AL MOU [BX+U], AL A: "" XX 10) Presul A o 2 bity w prawo SHR AXII; SHER AXII; A: "" | Xx" | ... x 11) Waylay 3 male 4164 do AH MOU AH, [BX] A: ... / xxxx / xx.. / ... x 12) Presul Axol hit w praw SHR AX.1 A: --- (XXX XXX)----13) presid AL w prao o 5 bitali SHR ALCL A: | xxx | : A 14) Zapies unde AL w linke f MOU [BX+ W], AL 15) Zapin lilup e MOU [BX+9], AH

rozwiązanie w C
char B; char C; char D;
char d; char e; char f; char g;
int sum= (((B*16)+C)*16)+D; // *16 to to samo co <<4 lub SHR
g=sum%8;
sum=sum>>3; // sum>>3 to to samo co sum/8 tylko szybciej.
f=sum%8;
sum=sum/8;
e=sum%8;
d=sum>>3;
zamiast "/" można użyć A >> 3;

algorytm jest podobny i polega na wyliczaniu wartości przez mnożenie liczby przez wagę, a następnie obliczenie kolejnych znaków od prawej storny przez dzielenie wartości z resztą.



Online Assembly Compiler

```
Execute |
            Beautify |
                       Share
                                                                                                   Terminal
                               Source Code
                                              Help
                                                    Login ×
                                                                                                  567=2547Hello,
 1 - section .text
        global _start
    _start:
        mov ah,[D]
        SHR AX,CL
        MOV CL,05
        SHR AL,CL
        ADD AL,0x30 ; zamiana na ascii przez dodanie x30
        MOV [h],AL
        SHR AX,1;
        MOV AH, [C]
        SHR AX,1
        SHR AX,1
        SHR AL,CL
        ADD AL,0x30 ; zamiana na ascii
        MOV [g],AL
        SHR AX,1
        SHR AX,1
        MOV AH, [B]
        SHR AX,1
        SHR AL,CL
        ADD AL,0x30 ; ...
24
        MOV [f],AL
        ADD AH,0x30
        MOV [e], AH
        MOV AX, [B]
29
        MOV [B], AX
        MOV AX, [C]
        ADD AX,0x30
        MOv [C],AX
        MOV AX,[D]
        ADD AX,0x30
        MOV [D],AX
        mov edx, len
        mov ecx, B
        mov ebx, 1
        mov eax, 4
42
        mov eax, 1
44
   section .data
    B db 5
   D db 7
   xx db 0x3d
   e db 0
   f db 0
   g db 0
   h db 0
   msg db 'Hello, world!',0xa ;our dear string
   len equ $ - msg
```

Vacepo hexadeymaln! proste-aby myswellië watori history zapisap w pampi, musing je wielolastruc dvelve 2 vents pred podstare, ayli de likele u 2mphly di prer 10- co jat knopotlime den massyn pretwards you worby o poddac 2. Matomort duelere par 2,4,8,16 i lælepre podper huby 2 polopa na presouver 6. Low W prano 0 1, 2,3 hel 4 parage. tatuei jest mytuchuli hindo pry podstac 8 un 16. podstava 16 ma 19 saleto i e ma sauce 2 mali déa tradyon 8 6 itali, podstana 8 more mei 2 lub 3 zuchi. Ponadto zamy hexadey nahy od voru welae' jeili projaci sig meh "10" A "11" Blub nortepe. 20ps 16 but po proten wygodny. A pora tym jest trolle clitaring, co ma talve zvolto my pourtoun H4CK-nowy anhi zapien stow 2 hyboroxider cyk i main. byve to Whyware do Konstinowale haret up: "h@sto" 2 outert " hasto".

```
x16 0
2adowe 3
 -58 (10) ->
   58(10) = 48+10 = 0x30+A = 0x3A
                                   02003A B [1]
          0x3A=.11.1.1.
 -58 (u1) -0 x 3A = 11... 1.1 = 0x C 5 = 0x FFC 5
                                             e III.
                               7997x0 -
 -128(w) > 128(w) = 0x80+0=0x80 = 1......
                     -128 (41) = = · | | | | | | | | = 0x7F
  -128(m) = 0xFF7F / 0xFFFF FF7F
  -1023(10) U, > (1024 = 210 1023 = 000 | 1.11111111
                                        0x3 F.F
                                 - 1023 = FC 00
  - 1023 (un) = 0x FCOO / Ox PFFF FCOO
```

2adove 4 - 58 u2= - 58 u1+1= OxFFC5+1= OxFFC6 OXPEPF AFCS+1=0xFFFF FFC6

> 58 uz = 58u= 0 x 3A = 0x003A 0x0000 003A

-128 (u2) = -128 (u1) t/ = 0xFF7FH=0xFF80 = 0xPFFF FF80

> -1023 cuz) = -1023 cui) t/ = OxFCOO +1 = 0x FCO1 OXFFFF FCO1

2ad 5 Cry dodare Wab 1111 1117 da poprary wysh? 206acry.

0

-7

-2

11111111 10 (1)111111 -1 -11111111 0 000001 -0000001 0...0000 = -1(10) 11100

-1+-1=-2

Suna sundan 1111 1111 + 1111 1111

 $\frac{(1)1111110}{(1)1110} = 11111100$ = -11111101 = 11111101 = -11111101 = -11111101 = -11111101 = -11111101 = -11111101 = -11111101 = -11111101 = -11111101 = -11111101 = -11111101 = -11111101 = -111111101 = -11111101 = -11111101 = -11111101 = -11111101 = -11111101 = -11111101 = -11111101 = -11111101 = -11111101 = -11111101 = -11111101 = -11111101 = -111111101 = -1111101 = -1111101 = -1111101 = -1111101 = -1111101 = -1111101 = -1111101 = -1111101 = -1111101 = -1111101 = -1111101 = -1111101 = -1111101 = -1111101 = -1111101 = -111111101 = -111111101 = -111111101101 = -11111101 = -1111111101 = -111111101 = -111111101 = -11111101 = -11111101 = -11111

- -2

wynik jort pravidlory, -1+(-1)=-2.

Urapetniere do 2 jett najpopularrejne, ponteren date popular agnitei pry dodoman (odejmowam livió dodatnien i ujemyen, o ite ne petrocyny talaren.

2 ad 5 a ay dodore linb 1000 0000 i 10000000 da popray wych?

1000 0000 U2 = (-) 000 0000 => (-1)=(-)0 111 MM oducean

-10000000 cyli jest to linba -128.

dødere dan hinb -128+ (-128) da w wynden -256. cryh' wynde n'e zwer sig 2alvere 86. to wynn.

1000 0000

ustamore providing place.

= 0 prevente i

CF OF

ne 8086 ustandone Congtep CY+
NIE ustandone Overflootlop NV-

any doclarwaln 100000 flagi ou cy

2ed 6 Spakoway BCD 8421

BCD

AF

Krok 1) doclaware ruhle

1000 1000 88 ale jerleing w BCD i

1010 0000 10.6 musing sprendri Plage AF

Koh 2) sprenday flage AF

Krok 3) with ustanne flow to:

Kroh 3) porti ustanone flage to:
- Konada AAA - wyrumoe
po dod enein BCD.

AAA dodaje + 6 gdy water w AL > 9 i myronowae 4 starmb bittow.

josti AL bylo Kongrowae (flaga AF+)

po kareture dostans 06 2 prentitem.