## Functions in Algorithms Monday, 11 January 2021

INTEGER PUNCTION. INT() There are two purposes: 1) Digit extraction 2) Finding whole number entered.

Extaction: Digit

> 2) Number of digits in number 2) Number of digits to extract from left. Eiven?

Exmple: X= 39546 SD = INT(X/10000)

TD = INT (X/1000) Three D = INT (X/100)

 $SD = INT \left( \frac{39546}{10000} \right) = 3$ TD = INT ( 34546 ) = 39 Thrad = INT (39546) = 395

Finding whole Number?

Is whole Number n = 3.97m = INT(n) 3 725 38 3 IF n and m are equal then n is NO 5.97 5 autole nutre ND 9.58 9 yes.

DIVISION Functions:

$$\frac{4}{2} = 014$$

$$\frac{3}{2} = \frac{4}{3}$$

$$\frac{3}{2} = \frac{4}{3}$$

$$\frac{3}{3} = \frac{4}{3}$$

- INPUT 1000 Nungers - OUTPUT How many one Ever and odd in bus.

Count 40, NEO, XEO, evento, odd & D For Count + 1 To 1000

INPUT N

X + N MOD 2 IF X=0 Then eyen = eyen+1 IF x=1 Then odd = odd+1

Next OUTPUT even, odd

LOG() Function: We use Log() lunction to find number of digits in own entered number

INPUT NOM X & INT (LOG(Num))+1 OUTPUT X

INT(), [DIV(), MOD(), LOG() DINISIONS.