-> Pointer Maricuble is a special variable which stores the address of other variable.

EX: ind a, *P;

P= 89;

Here 'a' is simple variouble 2 P is a pointer

Variable

-) pointer directly deal with address of other vanishes so it is saster.

To use Pointer vuriculte, sirst we have to declure,

int xp;
Declaration of Pointh variable
int a;
Declaration of simple variable
a = 9;

P = 4 43

Printse" ?.d", *p); -> will give 'g' outled

*P = 100; -> it change the value of a to 100

Printse" ?.d", a); -> will print '100'

- -> Functions can be invoked in two ways: can by value or call by Reference. These two ways are generally distrementiated by the Lype of values passed to them as parameters.
- The parameters passed to sunction are called actual parameters whereas the parameters received by Junction are called formal parameters.
- Jean by vulve: In this parameter passing method, vulves of actual parameters are copied to sunction's formal parameters and the two types of parameters are stored in disterent memory location. so any—changes made inside sunctions are not restrected in deciral parameters of catter caller
- parameters reser to some locations, so any changes and inside the sunction are actually restected in

11 c prog. to illustrate call by value # include (stolo, 4) # include Loomo. W 11 Junction ProtoLype (int, ind); 11 main sunction void main() { int a = 10, b = 20; 11 pass by vanges Sweep (a, b); prints (") ab (1=>,0, b=>,0",0"); getch(); 11 sweep synctions that sweeps two vulyes. void sweep (int x, indy) ¿ int t; t = x; x = y; サニモラ Printf(" x = 1,d y = 1,d", x,y) 01= E a=10 h=20

11 c prog. to illystrute call by Reserence # include (sidio. W) # include (conjo, h) 11 sunction prototype void sweep (ind x, int x); // main synction void main () ¿ înt 4=10, b=20; 11 Pass raterence Sweep(&a, &b); Print+("a=2.d b=2.d", a, b); Setch(); 11 sunction to sweet trees verially by reservence Void swap (ind * X, ind *4) Eind t; t = * x; *x = xy; XY = t; Print+("x=>,d y=>,d',x,y); a=20 b=10 -> Thus acqued values of 'ar

-> Thus actual values of 'a' 2'b' remain and 'b' get changed utter unchanged even after exchanging the exchanging values of x and y

=) Pointers and array

ind *p, a[3] = { 8,9,11};

P=q; int -) It ussign buse address of sigst element of array variable a

P=q is equal to P= &uCo], both are same

etample:

void main()

{ int a [5] = {1, 2, 3, 4, 5};

int xp;

P = 4 4 [2];

Prints("*P= $\frac{1}{2}d(n')$, *P): \rightarrow Print third element '3'

Prints("*(P+1)= $\frac{1}{2}d(n')$, *(P=+1)): \rightarrow Print '4'

Setch():

Prints("*(P-1)= $\frac{1}{2}d(n')$, *(P-1)): \rightarrow Print '2'

3

=> pointers and Strings:

we can declare dynamic string variable using pointer ex: char xp:) p is a dynamic character string variable which can store any string of dynamic size char xp = "hello computer");

gets (P): - will print hello computer.