

We will start at 8:33 #Agenda -> Basio of memory management Bases of fointers & suferences Differences stu other dala lypes & pointer & references Types of pointer.
Operators & auch netics of pointous function pointer, 8 mont pointe, rue /delectr

What are pointers ?? value is Pointu is whose a variable mem or y unt \* pH = &x; > value of the variable (10) > location when his bucket was made has an address 20K New bucket Of can store address address of bucket fis unt variable.

In normal vouable que unite <datalype> <name> = <value>; So when we initialere a pointer, the declaration depends on the type of variable whose address is shorted in pointer. unt x = 10; // normal integer int \*pr; // declaration < datatype > Chane > = address (how has)

How to access address of a variable ?? > using "&" operator (ampersand) -> un any operator. -> 97 returns the address of any variable

unt 1=10; int \* px = 80 x; How to access anything stored at an address using the address? -> 1) Shore the address in a pointer. 2) Use dereferencing of erator (\*) to get the value Cout < (\* troj dentermine oferation

What is dereferency? Dis the process of getting the value stored at an address usery that address. unt a =10' confica; <10 cont cc (a+D") A(1)

float \* ypr = & z; Char + 2px = 802; ( ) what is do if we want to store address of of the <datatype > = {\text{name}} = {\text{Socvariable nows}}

unt \*\* new -x-pr = {\text{Socvariable nows}}

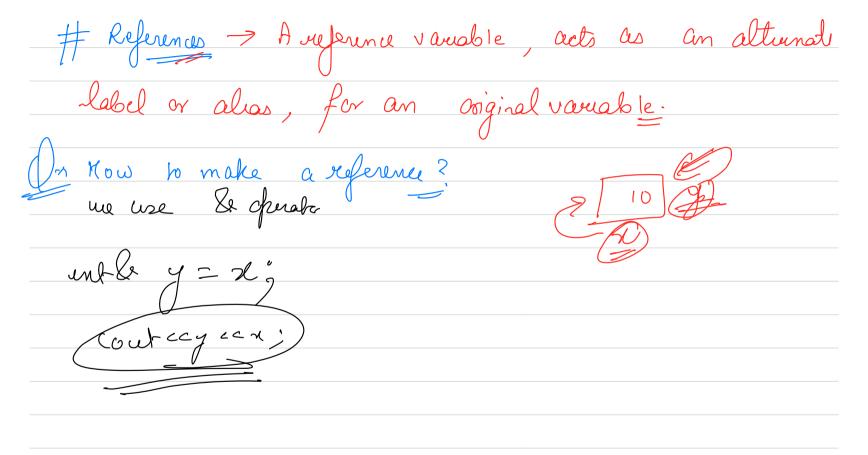
Don what is the size of int in (++?
U/ 16yle
b) 2 byter
a) 1 byle b) & byter c) 4 byler d) None - defends on environment.
d) None - defends on invironment.
Sized (x);

When a C++ program is run, a memory from RAM is allocated. Now that memory majorly when func? relium frame 15 & cmo vd may fram 8 hore (o cal 810 bal space / C

int a = 10° Stack delete nem

neu operator -> makes a neu men ay space in heap & nam of array stores the cout << ar [0] // 1 cout << (200) = // 25k Int a or lu]

Flointer Support authorities in crement clearement (--) addition (t=) Subtract (-=) (out < 2000 + 1 / prent address of



Can references refere to invalid location in C++?? int & gum () (

int temp = 10003;

volum temp; unt \*pro; // garbage

