Pointers - Level

1 Pointers

int x = 12;

int main(){

int a = 5;

cout «a « endl;

cout « &a « endl;

Yuturn 0;

Output,
5
0x7/1/146810264

motorial magnitude

int a = 5, 0.

}

derejound operator is a pointer to integer data

chan* p = & ch;

p is pointer to chan
data

五名二对生物.

bool*p=k-;

p is a pointer to bool

data

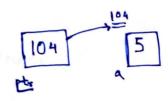
int a = 5

"creati pointer

int * ptr = &a;

// accus value ptr is pointing out < * ptr < endl;

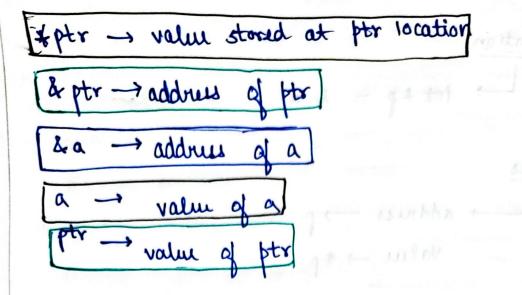
int z = 25; int K = L z; 112 Z5 H2



ptr - address

roller at location stored in ptr

```
+ addruss → p
Value → *p
int man (){
     int a = 5;
      int* ptr=la;
      cout «"Address of a is: "«La «end);
       cout « ptr « end);
       cout < *ptr « end);
       cout« ptr « end);
 }
                  · Pointer 351 Size & asign [depends
 Output
 Address of a is: Location 1
 A Location 1
 5
 Prints address of ptr. and to be missioned to love the
```



Q. int
$$a=5$$
; int $p=2a$; \longrightarrow size \longrightarrow size \longrightarrow size \longrightarrow chan $ch=b^2$; \longrightarrow chan $ch=b^2$; \longrightarrow double $d=1.03$; double $d=1.03$; double $d=1.03$;

double d=1.03;

0/9

Pointer on size '8' aarga [depends on architecture] Why 8? Addition of a is: Location !

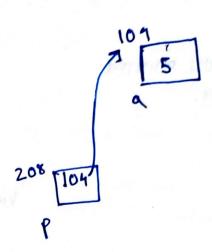
H.W- What is meaning of 64 bit system?

Bad bradicu int* ptr; 8 SEGMENTATION ERROR cout < + ptr < end; 018 int + ptr = 0 // NULL POINTER cout < *ptr « end); Memory accus humari mat chedo 208 a=a+1; &a viii) ++ (* pts) - 12 208 $(ix) \alpha = \alpha + 1 - 13$ 104 (x) *p=*p+2 - 15 (xi) *p=*px2--30 (Xii) * P = * P - 15 v) &ptr -> 2.08 i) a -> 10 il) &a -> 104 vi) +p * 2 → 20

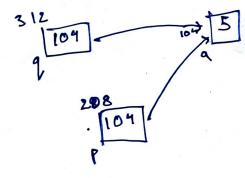
ipptr -> 104

in*pt -> 10

int
$$a = 5$$
;
int $p = & a$
int $q = 7$;



int
$$a=5$$
;
int $p=2a$;
int $q=p$;



$$\rightarrow q -5$$

$$\rightarrow &q -104$$

$$\rightarrow p - 104$$

$$\rightarrow &p = 208$$

$$\rightarrow &p = 208$$

$$\rightarrow &p \rightarrow 8$$

$$\rightarrow &q \rightarrow 104$$

$$\rightarrow &q - 312$$

$$\rightarrow &q - 5$$

-> *P/2-5/2

→×9/2-5/2

int
$$a=10$$
;
int* $p=2a$;
int* $q=p$;
int* $r=q$;