## WEEK - 05:-#CHAR-ARRAYS AND STRINGS # 01 int are [5] 8pace = 4x5 = 20 byte esses sall bis - Cheir arrays:chas ch [5]; ) char - 1 byte = 8 bit space = $5 \times 1 = 5$ bytes. et cin gettere ): Jub pura line Ch → 1 byte → 8 bit -Total combination => 28 => 256 (ABCII table) -> cho, getting (ch., son) chas ch (±0); for cin >> ch ch; & output -> cout << ch; char ch (5); Land plat and acts award and all as realized null characters null character - b. tall will speck la ann nahi haga. cin >> ch; $\rightarrow$ 6/p: Dog of automaticall, termination of NC add string. NC add string. No payaga Null character ( (0) - ASCII value = 0. (and )

W. C. K. F.

Code:  $\rightarrow$  char ch [10]  $\rightarrow$  B a b b a 2 (0)

O 1 2 3 4 5 6 7 8 9  $\rightarrow$  eln  $\Rightarrow$  ch  $\Rightarrow$  e/p: Babbas  $\rightarrow$  cout << ch  $\Rightarrow$  o/p: Babbas  $\rightarrow$  char temp = ch [6]; // null character has.  $\rightarrow$  ent value = int (temp);  $\rightarrow$  cout << value;  $\rightarrow$  o/p: O

Ascii of null char

\* Jab bhi aap character array ke case ke andar input le vahe horge, tob aapka input kab rukhega? -> By Default

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- इस्पेर है हि सह

:. cin delimeter

'\r'; enter or newline

'\t'; tab

'\r'; tab

input stops.

Eg: - My Name 28 Love \_\_\_\_ 0/p: My.

# [cln.getline]:- jab pura line chahiye.

(slad III) der es maximum enput

-> cln. getline (ch, 100);

ushere to store.

But, enter se fer bhi Enput stop kar deta hai.

⇒ cln. gettline () → tab und spaces ka asar nahi hoga.

Chas ch [100]; cln>> ch & Babbas

chas ch [100]; eln>> ch;

int ler = find tength (ch, 100); cout << len;

Ent length = 0; let size)

Ent length = 0; let size; f++)

if (eh [c] = = '10') -> break;

3 neturn lugton;

now, if I had used cin. getline (ch, 100); \* Space will also be counted. # function - strlen (ch); - length of chas array #. Include (stoling. h) int len = 0, Endex = 0; Code: while (ch [?ndex]!= (10) index ++; :. if (14-94+65) - 65. Be jayaga neturn index; \*\* iswea aft - 97 + 65 - sofe [ L.c - (a: + :A) - . louxecose to apparents. Reverse a string:i/p: Babbar o/p: rabbaB 1 july = 5 swap (1, 1); 10 (T = 1 (4 = - 40) (= (27 - 22) 4 b α b a is to voit consult to Loper Care Die Linex = (. a a P>j -> stop -> while (P<=j) void neverse String (char ch [ , but n) chas ch (100); ent i=0, j=n-1; clr.gettire (ch., 100); E skap (a[e], a[e]); int len = find Length (ch, 100);

i++ , - - ; 3

neturn chi

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neversolog (ch, len);

cout << ch << endl;

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Inbuilt function for reverse =?
                                                                                       Aminues set, eate the asset &
99 Convert to upper case.
                 P/p:- My name P8 Love Babbas.
                 O/P:- MY NAME IS LOVE BABBARTULOS.
       'a' \longrightarrow 'A' = ?
                                                                                     Let, asci A = 65
                                                                                                  ( 10/ = 1 ( 120 ) slades ( 10 ) slades ( 10 )
                                                                                               :. if (94-94+65) = 65 aa gayega
                                                                                                                                                                Michigan Priles;
                          → lower case - 97 + 65
                                         l.c - 'a' + 'A') -> louver case to uppercase.
                     · A' - 65 'a' - 97 now ef I want e'c' to 'C'
                    e B1 → 66 e b1 → 98
                    (C^{2} \rightarrow 67)
(C^{
                e0, → 68 ed, → 100
      A [UP-LC] => [UP-eA9+ea?]
Code: - vold convert to Upper Case (cras ch (7, int n)
                                                     Int Index = 0;
                                                    while (ch [index]!= (0)
                                                            char currCharactes = ch[Index];
                                                                        I check if lowercase, then only convert to upper case.
                               2 (cur Character >= and cus - <= (z)
              .3) childre (ch. 1000)
                                                                                  Gurs Character ch [index] = curchar - ea + A ?;
               (ned (10) 3 index ++;
                                                                                                                                             steap (atel, ap);
                                                                                                                                                                                               in and the
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Or Replace @ with space.
  ê/ρ:- My @ Warne @ ls @ Love Babbar
 0/p: - My Mame is Love Babbas.
 vold neplace Character (char ch [], int n);
                          (3mour >> tube ; smour ex also
      int index =0
       while (ch (index)!='\0')
          If (ch (?ndex) = = (@))
              ch [index] • = • _ ;
          index ++;
* 93 Check Palindrome.
 Eg:- NOON, RACECAR.
                                    Two pointer approach i++; j++; if equal.
         (2011) - house ton the
                             it n) (>) ruk fao.
     Check Palindrome (char Ch (1, but n)
       int P= 0; j=n-1;
       ushile (1<=j)
          if (ch [?] = = ch [y])
if (++, y--;
                                 TC \Rightarrow O(n/2) \rightarrow O(n)
        & else ? neturo false;
      netwan true;
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