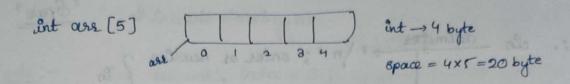
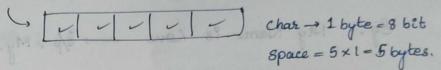
WEEK - 05:-

#CHAR-ARRAYS AND STRINGS # 01



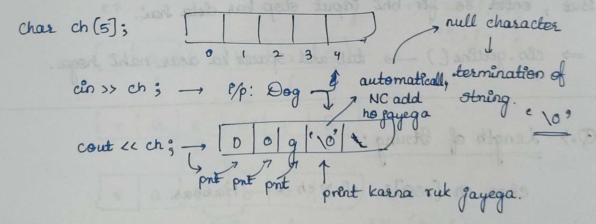
- Chair arrays: - char ch [5];



Ch → 1 byte → 8 bit -

Total combination => 28 => 256 (ASCII table)

input: } char ch (±0);



Null character (°(0') - ASCII value = 0.

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

O 1 2 3 4 5 6 7 8 9

 \rightarrow cln >> ch \rightarrow 2/p: Babbar

ignore

ignore

> cout << ch ⇒ o/p: (Babbas)

-> char temp = ch [6]; // null character has

>> Ent value = int (temp); -> cout << value; -> o/p:[0]

Doci of null char

* Jab bhi aap character array ke ease ke andar input le vahe horge, tob aapka input kab rukhega? >> By Default 'Space'

:. cin delimeter ; '\n'; enter er newline } in these cases, '-'; space input stops.

Eg:- My Name Es Lone - 0/p: My.

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

→ cin getline (ch, 100);

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

⇒ cln.getline() → tab and spaces ka asas nahi hoga.

Char ch [200]; ein >> ch & Babbar

Pol: if (null-chas) - ruk gao;

chas ch[100]; eln>> ch; int len = find tength (ch, 100); cout << len;

Lnt find Length (char ch(), int size)

Ent length = 0;

for (int i = 0; i & size; i++)

if (ch [i] = = '\0') -> break;

else -> length++;

neturn lugto;

```
now, if I had used cin. getline (ch, 100);
        → & Space will also be counted.
  # function -- > strlen (ch); -- length of chas array
               #Include (storing. h)
 Code: -
             int len = 0; Endex = 0;
             while (ch [?ndex]!= "10")
                  index ++; 600
           neturn index;
95 Reverse a string:
   i/p: Babbar o/p: rabbaB

\uparrow_{j} \longrightarrow swap(P_{sj});

\stackrel{(++)}{:} --;

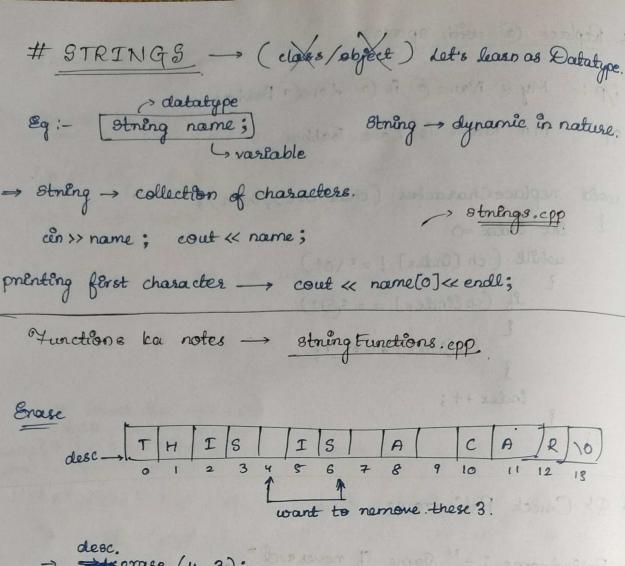
                        6
                        b
               a
                     ?>j° -> stop -> while (P(=j))
void neverseStning (char ch (s), ent n)
  enti=0, j=n-1,
                                         chas ch (100);
                                         cls. gettire (ch, 100);
  while (ec= g)
        { skap (a[e], a[e));
                                        int len = find Length (ch, 100);
           i++ 9 - - 93
                                        neversiting (ch, len);
```

neturn chi

cout << ch << endl;

```
Inbuilt function for neuerse =?
Q's Convert to upper case
    P/p:- My nance Ps Love Babbas.
    O/p:- MY NAME IS LOVE BABBAR,
 'a? -> 'A' =?
                  Let, asci A = 65
                           'a' = 97
                     :. if (94-94+65) = 65 aa gayega
         lower case - 97 + 65
         l.c - 'a' + 'A' ) -> louver case to uppercase.
    · A · - 65
               e a' -> 97
                            now ef I want e'c' to 'C'
    e B1 → 66 e b9 → 98
    · C 9 -> 67
                ec' -> 99
                                 99 - 97 + 65 \Rightarrow 67 = C
   e0? → 68 ed? → 100
 A [UE→LC] ⇒ [UP-eA9+ea?
Code: - vold convert To Upper Case (chas ch (7, int n)
       i Int Index = 0;
            whele (ch [index]!= (0))
              char currCharactes = ch [?ndex];
               If check if lowerease, then only convert to upper case. If (curr Character >= a' and cur__ <= 'z')
                   Gurs Character ch [index] = Curchar _ea+ + A?
   Index ++;
```

```
Q's Replace @ with space.
  i/p: - My @ Warne @ Es @ Love Babban
  o/p: - My Name is Lone Babbas.
  vold replace Character (char ch (), int n);
       int index =0
       ushill (ch (index)!= (10))
           If (ch (Endex) = = (@))
               ch [index] = = ";
          index ++;
* 9> Check Palindrome.
   Pallndrome: - " Same of neversed",
   Eg:- NOON, RACECAR,
                                        Two pointer approach
                      dono same hai
                                          i++; g++; if equal.
                                ut n) ( ) of string.
      Check Palindrome (char Ch (), but n)
        înt l= 0; j=n-1;
        ushile (2<= 3)
            if (ch (8) = = ch (g))
                                      TC \Rightarrow O(n/2) \rightarrow O(n)
         & else ? neturn false;
       neturn true;
```



deserase (4,3);

