

How to take input in char datatype away. In unteger unt n. int autio]; cun >7 %. cin >7 au [1]; Taking ningut in mana datatyps by single manaster char ch [100]; -> chay averay ch[0] = "s". outjut ch[1] = 'u'. ch[2] = 161. sub rat cun >706/3 77 ch[4] 77 ch[5]; 1) vingul puint tom(1=0; 1e6; 1++){ couter ahtij; subrat ule cour also take respectmultiple in put in char away chan name [100]; But what if I take unputs my'th cun >7 name; cout & name; 11 P subnat Op subrat when we take multiple characters virgues after all unputs muli character ise o is printed this shows the termination of string sequence of characters Space complexity: 0(1). * De-muits of in while man datatype: cine can't necognize -> space, enter (tab) on /n

ex: thena chay name [20]; cun 77 name. cout << name. 1/P: subrat_singh OP: Subrat cen. get live (grame variable name ; capacity of an array ? uit is used to can access chan take chay/string unput & storings type inpu meth spaces it huise consider along with the space unhole string with space.) length of a string. cent geteringth (chanaver[]) int1=0. unt lungth = 0. stylen (are) frenc well menile (any [i] = 10') { also give the length sength ++; of a stoning une neader file # unclude & streng. h7 sutwen lung the. To C = O(n) unt maen () { S.C = O(2) chan aus[100] couter "Futer The name:" cen. get luie. (our, 100). unt ength = get length (and). cout K th The length is:" Ke length output subrat Kuman sing h The length W 18.

Revereix a string 7. (= 0(n) world menere The string (draw courts) < 5.0-0(1) int 1=0; int main () { inti- studen(arm)-1; chanary [100] cout ex" Enter the name :" while (12=1) 4 cin.getline (aus, 50): swap caviliz, averljj); newelethestring (aver). couter" The Reverse namine :"e au. output: Enter the name: Subrat Kumar Singh The never name: hanis ramuk tarbus Repeace all spaces by @: uoid replace The spaces (char sentence []) {
for (inti=0: is street (sentence); i++) < if (sentence [i] == ')/ sentence [i] = "@1. ToC= D(n) S. (= 0(1) unt main () < chay sentence [100]; coult << "Enter any sentence:"; cun getline (sentence, 100). coul << 1. The updated sentence is: " << suplace The spaces (sentence).
contre u The explated sentence is: " << sentence; my name is khan output: My @ name @ is @ knan. 4) Palindrame: Noon - read left to right & light to left let well be same ENEROIPH read left to right & seight to left ut will be same.

```
bool cheekPalendrome (char word []) (
    int 1 = 0;
    int = stalen (word)-1;
     wente (iz=j) <
     if (word[i] == word[j]) {
                retwen true;
                                ant plan points 180
                                int main () {
                                  enan word [100].
                                  coutex" Enter the word :":
         else? mallinger anything
                                 cin. getline (mord, 100);
             netuun false.
                                if (check Palindrome (word)) {
                               coute "It i's a Palindrome"
                               else ( eout « It is not a Palindrom
 output: noon
      Itru a Palindsome
                              cope with - max backle
        racelas
                             with the ser " The street of
       It is a Palindrome
                                  21 = () (+3) (10) 2
        subrat
       it is not a Palindrome
                               6) Lowercase the string
(5) upper case the string
                                  word make Lowertare (char word [7
void make Uppercase (charmord?)
   fon (inti=0; ix stulen (mord); i++)
                                  for (inti=0: ix states (mord)
    word [i] = mord [i] - 32;
                                   mord Tig=mord Tig+32
                             content cub at a.
unt main () of
cout it "Enter the mord";
 cen getrine (mord, 100);
                             same main june
 make upper case (mord);
 coul of The word in appercase
                              autput
      is:" < mord.
                               subrat
                                           SUBRAT
                                           subrat
                              SUBRAT
```

I struings: - It is a sequence of characters. - It il a dynamic datatype for chan away. -> same alke of vector. Whe don't need to explicitly give the size of storing -> straings have some inbuilt functions. which we can use along with the storings. syntax of storing is storing & - "Hello",
datatype variable name ren-gottime (ward, 100) -> Inbuit Functions: To length () - s will give the length of string ex: string s = "Heleo"; | size(): too have same func of length () can use any. s. leigth() = 5 (2) capacity () -> max value can a stowing have existe string s= " Test streeting"; s. corpacity() = 15. 3) empty () - To check string is empty our not ex: sterings = "Subrat"; s. empty() = 0/No (4) pushback () -> Ta add character to any a string, ex: struing. 3 = " subrat'. s. push-back = " q'; output: subrata. A () WIDOU PAR Last character; 1 pop-back () -> To delete er: etneng s: " subrat" s. pop-back (); subra.

(6) substr (): -> to generate substrung; ex: string word = " subrat l'e good"; mord. substar (10, 4) from index 10 and print 4 characters. output good .. (7) find (): -> to find content in itsing. ex: struing s = " Hello morld",

s-find (sombored "). ferend at rendex 6;

(8) npos is windicates the that the character or substring you are fending in strung is not found.