

Todoy's agenda
b Char and String
Lodoy's agenda Loches and Rtaing Lo ASCII
La Pooblems
V) POVOICING
//// AIGOPTOD



String: Collection of Characters
String: Collection of Characters en: "Algobel"
Characters:
a) Alphabet
4 a-z (10wercase)
4A-Z (upper cose)
b) Special characters La # \$?! etc.
c) Numbers
b 0, 1, 2 9
Syntan: , yee , rame , character
Syntam: Lype frame Lobotel Char Ch = 'A';
int no 10;
(Code
Code
Compiles
Coole

Characters -> number -> binary number



char ch = 'B'; => 'B' = 66

ASCII -> 256 Charocters

'A': 65	'a'; 97	'o': 48
'g' : 6 b	3': 98	1' : 49
'c': 67	'c'; 99	1
	•	(
	(,
	AIOOL	hen
	11901	
1		19'; 57
121: 90	12: 122	10" Not a Character



* char Sules

```
1. you can do any mathematical operation on character
           & the one will be integer.
                  s.o.p (1/2+1/66); → 131
mpecal4
            Char
                  to inf: implicit
                            hen: int no 'c';
                               Complicated
                                            in lew case it should
                                 char ch: 65;
                                                 do enlicity always.
// "static void main" must be defined in a public class.
public class Main {
    public static void main(String[] args) {
       Scanner scn = new Scanner(System.in);
       char ch1 = 'A';
       //int x = scn.nextInt();
       char ch2 = scn.nextLine().charAt(0);
       System.out.println(ch2);
```



Qui2 1:

Quiz2:

Quiz 2:

Qui2 4:



Quiz S:

Qui 2 6:

S.o.p ("smaller");



// Stoings
6 Collection of characters.
C
Syntan:
4 String St : "Algorrel";
Stoing St: = "A"; -> this works
<u>\$</u>
-> A L GO P R E P
→ S.O.p (St. CharAt (3)); → 0
>> St. CXONAt(3) = 1/2'; >> CMOV
G In Stoing you Can't Change
Charactess directly. (no uldate).
4 Strings are immutable
-> Substring -> Any Continuous Part of String
Stoing St = "Algobres";
Ly Algo 6 golverd yr
L A
h poep v
L Algexx
ls Algoroel &



```
public static void main(string[] args) (
        Scanner scn = new Scanner(System.in);
           char ch1 = 'A';
//
           //int x = scn.nextInt();
           char ch2 = scn.nextLine().charAt(0);
11
11
           System.out.println(ch2);
        String st1 = "AlgoPrep"; //lgopre
        System.out.println(st1.charAt(3)); // -> o
        // String st2 = scn.nextLine();
        // System.out.println(st2);
        //substring -> continuous part of string
        System.out.println(stl.substring(1,7)); // sp - inclusive, ep - exclusive
        //length of string
        System.out.println(st1.length());
        // String to char Array
        char[] arr = st1.toCharArray(); //AlgoPrep
        for(int i=0;i<arr.length;i++){</pre>
            System.out.print(arr[i]+" ");
        //Char Array to String
        String dhsbhaiuhja = "".valueOf(arr);
        System.out.println(dhsbhaiuhja);
```

Break till 9: 48 pm



a) Toggle Charocters
Gaiven a Charl's which Contains only small and
Calital letters, toggle them.
b lowercase -> uffercase
Ly uffercage -> lowercage
en: AlgoP&EP - aLGOPRep
'A': 65 (132) 'a': 97
'B': 66 (33) 'b': 38
'c' : 67 (-12 'c' : 99
<u>AlgoPrep</u>
'2': 90
ufference to lowercose: 132
lower case to upper case: -32
-> whenever you want to change Char, you think in terms of ascii.



11Psuedo code

	P	s void toggle (char [] ch)
		low (int i=0; i e ch-length; i++) {
		108 (ind i=0; iech-length; it1) { if (Ohli) >= 65 21 chli] <= 90) }
ic: o(n)		chij= (chij+32)
re: 0(1)		3
19		else 11 10 wer case
		ch [i]: (cha) (ch [i] - 32),
		2
	2	



2) Reverse	the	given	Stoing
		1	0

b liven a string sto, neverse the string.

11954edo code

Public	Static	Stoing	heresesting	Cothing Sto DX
		0	V	V

Char [] ch = Stor to char Array ();

3

S.C: O(N)

while (SP< eP)
char temp: ch [sp];
ch[se] : ch[ee];
ch (ep) = temps
SP ++;
00

hetum "". value of (ch);





(4) AlgoPrep	