Day 9 - ArrayList & Strings

Wednesday, 27 October 2021 8:48 PM

int[] our = new int[5]-> Dize;) -> fixed Dize

ARRAYLIST > Collections

) only objects (carnot have printing data types)
int, char float? > Wrappu classes > Integer, Character, Boolean, Long,

IMMALIZATION

Arraylist < type> var name = new Arraylist < > (1); -> Size is not wandstory

Default: 10

eg: Arraylist < Integer> nums = new Arraylist <> (); > without size

Array of students -> Student -> class

eg: ArrayList < Student > Deludents = new ArrayList < ();

ADD:

numbCindeal = 10;

rums. add (10); -> add at lest rums, add (20);

ADD AT PARTICULAR INDEX! (1)

runs. add (1, 30); -> value

Charge at Particular index:

numo, set (2, 40);

REMOVE:

numo remove (2); > [10,30]

Colours. rumove ("red"); -> By value bobject nums = [10, 30, 40]]

colours = ["ked; "blue", "gran"]

```
O for lint i=0; i < num size(); H+) [
ITERATION!
         system.out. Println (nums-get (i));
                                               > runs [i] > runs get (i)
    Iterator < Integers its = nurs: iterator ();
     while (itr. fas Neat()) {
                                           1/10,20,30
       system out println ( (tr. next());
     for (Integer run: nums) {
                                                 11 for each
        system out Printly (num);
```

```
CONVERT ARRAYLIST TO ARRAY
 OObject[] om = nums. forray(); > neturn objects[] type
   Arraglist < Colour > colour = new Array hist <> ().
   Ubject [] arr = colour. to Array (),
      for (Object obj : arm) {
            Colour col = (Colon) Obj > Object (> Colon
              [10,20,30]
  Array List LInteger > nums = new Array List <> ();
  Object [] our = nums. to Array (); -> convert Aray to Array.
     for (Object obj : our) {
         Integer value = (Integer) Obj;
(2)
      Integer [] our = new Integer [nums.size()];
          are = nums. to Array (arr);
     for (Integer val: oru) {
           5.0.p (val)
```

CONVERT ARRAY TO ARRAYLIST

Integer [] and = new Integer [5]; \rightarrow [10,20,30]

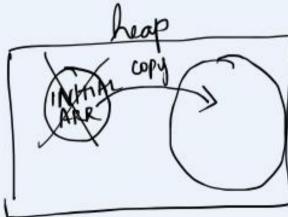
Array List < Integer > unlist = new Array List < > ();

and and arrays. as list (arr);

default size = 10; > Thrushold Value > 0.75

[1, 2, 3, 4, 5, 6, 7] - -] > grow

10



CLEAR nums. clear (); -> punde all the diments in tarrey list [] /rutur bodeon numo, isEmpty () (>> numo. size () !=0 [10, 20, 30] target = 20 \rightarrow [10, 10, 20, 20, [0, 50]]INDEXOF int indeanums. index of (20); -> Not present > -1 ist indea = nuns indea of (10); > return 0; (first ocarence) LASTINDEX Int last Index = nums. last Index Of (10) -> retur 4 CONTAINS colours contains ("red") -> return true false. Sort: Collections.sort(nurs) > integer String (sort based on Alphabets)

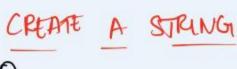
```
Keruse
                                                                                    Collections reverse (nurs).
                  eg: All prine numbers for 5 to 30 -> return on Array troylist < Integer> PrineHumber = new Arraylist < ();

for (inti=5; i<=30. itt) {

if (isprine(i)) {

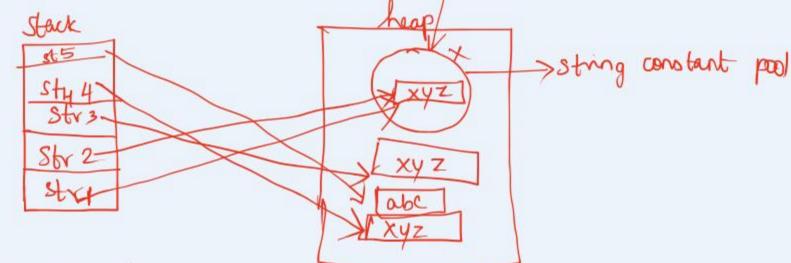
if (isprin
                                                                                                                                                                                                                                                                                                                                                      prinetumbers, add(i);
```

Strings: > Non-printive (Objects) , seguence of donaturs (char array) eg: "xyz" -> | xyz" -> | (fixed size) Strings are junnutable -> connot change Class > java. long. String (default class)



O String Str = "xyz"; → Litual

1 String str = new String ("Xyz");



String Stri = " xyz ;

string Strz = "xyz". 11abc

String Str3 = new String ("xyz"); X String constant PODI
String str4 = new String ("xyz").

Str 5 = now string ("abc");

```
TO CHARAPRAY:
    Clar [] ClarArr = Str. to CharArray ();
      ~ ClarAW [i]
TO HIND LENGET H;
      int length = Str. length ();
TO FIND INDEX OF A CHARACTER -> XYZ
    int index= str.indexOf('z'); >2 > lastIndexOf('')
> str. to Uppulase (); ABCDE > ABCDE
>str. to Lawer Cox (); L, abcde
> str 2 ; xyz 2yz
   Str1. equals Igrore Case (str2); -> true
   Stri. equals (str2) -> false
> contains () -> str1 > "Suttengue"
    Str1. Cortains ("(tin)"); -> true
```