

## Assignment No. - 25

Q.1 what is meant by array in java?

- Array is considered as the sequential collection of data members.
- Array is an non-primitive datatype which stores the data in sequential manner of homogeneous elements.

Q.2 can we create the jagged array in c?  
How?

- We can create the jagged array in c like in java.

• As java is made by using c & c++.

Syntax:

```
int arr [4] [4] = { { 10, 20, 30, 40 },
                    { 50 },
                    { 60, 70, 80 },
                    { 90, 100 } }
```

	0	1	2	3
0	10	20	30	40
1	50			
2	60	70	80	
3	90	100		

Jagged array



Q.3

what is difference between jagged array & multidimensional array?

- Jagged array : It is a type of multidimensional array in which data stored in rows as per required columns.

	0	1	2
0	10		
1	20	30	40
2	50	60	

rows

columns

- In multidimensional array : data stored in matrix format & all rows & columns are filled with data properly.

	0	1	2
0	10	20	30
1	40	50	60
2	70	80	90

Q.4

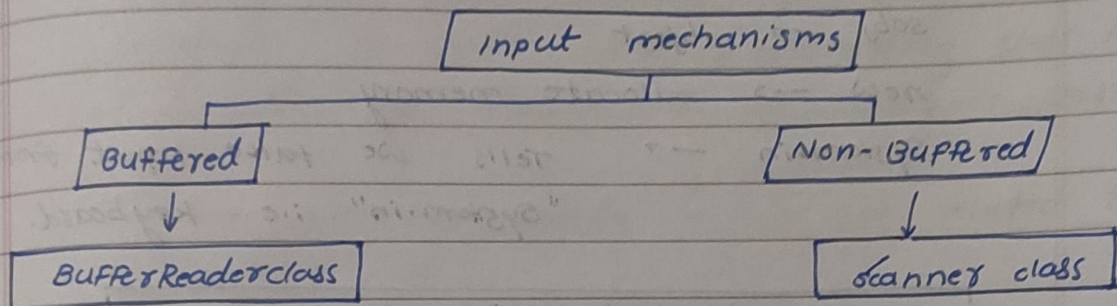
what is meant by length property in java?

- length property is used with the string.
- It is used to find the length of array.
- It is inbuilt function which returns the size of array.



Q5 Explain the types of input mechanisms in java?

- There are two types of input mechanism in java :



- Buffered : In this type we take input & store it and then use it.
- Non-Buffered : In this type we directly take input & don't store it.

Q6 Explain the mechanism to accept integer using Scanner class?

- The scanner class is a type of non-buffered input mechanism.
- To take the input we have to first import that class, which is present in java library.
- Inside java library there is a util library in that scanner class is present.



classmate  
Date \_\_\_\_\_  
Page \_\_\_\_\_

• Syntax:

```
Scanner subj = new Scanner (System.in);
```

Scanner → Inbuilt class

subj → object

new → allocate memory

System.in → Tells we take input from  
"System.in" i.e keyboard.

```
System.out.println("Enter Number : ");  
int No = subj.nextInt();
```

No → variable

nextInt() → method to take Integer.

Q7 write program which accept N numbers from user  
& store it into array & display the largest  
number from array.

Assignment 25-7.java

Q8 Assignment 25-8.java

Q9 Assignment 25-9.java



eg. what is meant by wrapper classes in java?

• According to java programming language everything in java is considered as class according to that terminology, every primitive datatype in java has corresponding class to it, that class is called as the wrapper class.

• There are two concepts which are related to wrapper class:

1. Boxing
2. Unboxing

1. Boxing : converting primitive datatype to wrapper class.

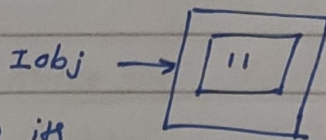
eg. `int no = 11;`

`Integer Iobj = no; // Boxing`

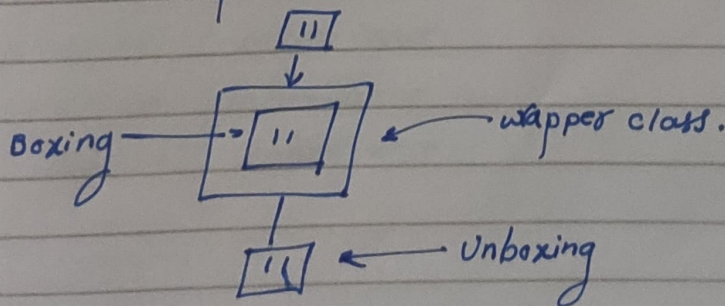
no 11

`System.out.println (no);`

`System.out.println (Iobj);`



2. Unboxing : Retrieving data from its (primitive data) corresponding wrapper class.



• The concept of wrapper class is used inside collections.

• Collection is a readymade implementation of all data structures.

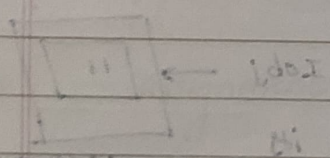
There are two concepts which are related to wrapper class:

1. Boxing
2. Unboxing

1. Boxing : converting primitive datatype to wrapper class.

eg. `int no = 11;`  
`Integer obj = no; // Boxing`

`System.out.println (no);`  
`System.out.println (obj);`



2. Unboxing : Retrieving data from its (primitive data) corresponding wrapper class.

