```
Dt: 2/10/2023
faq:
define Object Array?
=>The Array which is declared with java.lang.Object class is known
as Object-Array.
syntax:
Object o[] = new Object[size];
Advantage of Object Array:
 =>Object-Array will hold DisSimiler objects, because Object-class
is the PClass or SuperClass of all the classes.
Ex-program:
maccess: Course.java
package maccess;
public class Course extends Object
{
    public String id, name;
   public Course(String id, String name)
         this.id=id;
         this.name=name;
    @Override
    public String toString()
         return "CourseId:"+id+"\tCourseName:"+name;
    }
```

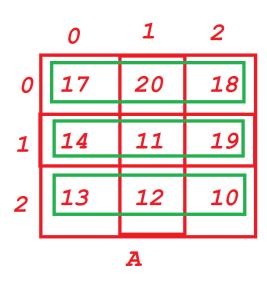
```
}
maccess: DemoArray3.java(MainClass)
package maccess;
public class DemoArray3
    @SuppressWarnings("removal")
    public static void main(String[] args)
       Object ob[] = new Object[3];
       ob[0] = new Integer(123);//Integer WrapperClass
Object
       ob[1] = new String("NIT-HYD");//String-Object
       ob[2] = new Course("C123", "CoreJava");
                           //User defined Class Object
       System.out.println("****Array-Details****");
       for(Object k : ob)
        System.out.println("Info;
                                      "+k.toString());
       }//end of loop
}
o/p:
****Array-Details****
Info: 123
Info: NIT-HYD
Info: Courseld:C123
                   CourseName:CoreJava
*imp
2.Multi Dimensional Arrays:
```

```
known as Multi-Dimensional Arrays.
 Ex:
  2-D Arrays
  3-D Arrays
  4-D Arrays
syntax to represent 2-D Arrays:
Class_name arr_var[][] = new Class_name[rows][cols];
Ex-program:
wap to read and display 3X3 Matrix?
maccess: DemoArray4.java(MainClass)
package maccess;
import java.util.*;
public class DemoArray4
     @SuppressWarnings("removal")
     public static void main(String[] args)
     {
         Scanner s = new Scanner(System.in);
         try(s;) {
          try {
               Integer A[][] = new Integer[3][3];
```

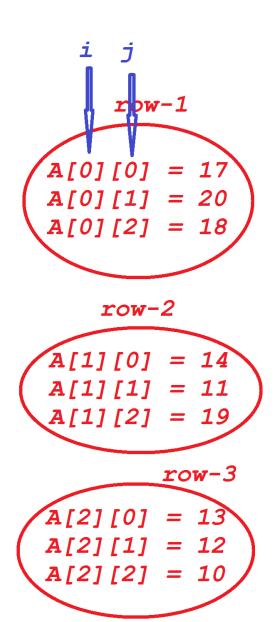
=>The Arrays which are declared with multiple dimensions are

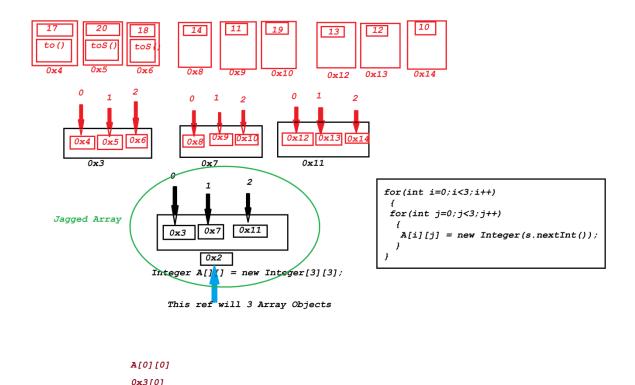
```
System.out.println("---Enter 3X3 Matrix---
");
               for(int i=0;i<3;i++)</pre>
                   for(int j=0; j<3; j++)</pre>
                        A[i][j] = new
Integer(s.nextInt());
                   }//InnerLoop
               }//OuterLoop
              System.out.println("***Display 3X3
Matrix***");
              for(int i=0;i<3;i++)</pre>
                   for(int j=0; j<3; j++)</pre>
                   {
                        System.out.print(A[i][j]+" ");
                   }//InnerLoop
                   System.out.println();
               }//OuterLoop
          }catch (Exception e) {e.printStackTrace();}
         }//end of try with resource
     }
}
o/p:
---Enter 3X3 Matrix---
12
14
29
23
31
```

Diagram:



3X3 Matrix





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## **Summary of Arrays:**

(i)Array holding User defined Class Objects

(ii)Array holding WrapperClass Objects

(iii)Array holding String-Objects

(iv)Array holding DisSimiler Objects(Object-Array)

(v)Array holding Array-Objects(Jagged Array)

**Command Line Argument Program:** 

<sup>\*</sup>imp

- =>The process of passing arguments to standard main() method is known as Command Line Argument Program.
- =>we pass arguments to standard main() method which execution command as follows:

java Class\_name arg1 arg2 arg3 ...

```
Program: DemoCon.java

package maccess;
public class DemoCon {
    public static void main(String[] ob)
    {
        System.out.println("****dsiplay from args[]****");
        for(String k : ob)
        {
            System.out.println(k.toString());
        }
    }
}
```

D:\Demo148>java DemoCon NIT-HYD CoreJava 12.34 A 123

\*\*\*\*dsiplay from args[]\*\*\*\*

**NIT-HYD** 

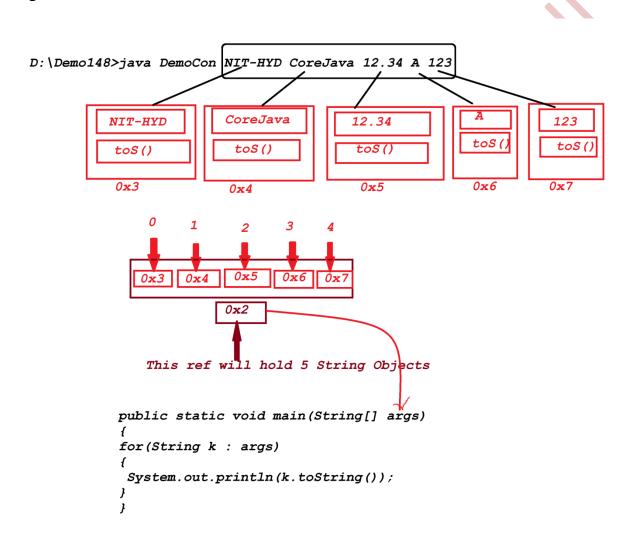
CoreJava

12.34

A

## D:\Demo148>

## Diagram:



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