

Dt : 26/9/2022

faq:

define 'Extended for'?

=>'Extended for' introduced by Java5 version and which is used to retrieve elements from Array objects.

=>This 'Extended for' is also known as Auto-retrieval loop,which means no intialization,no condition and no incre/decre.

=>This loop specifies only Container_name and the type of data available in Container(Array)

syntax:

```
for(Class_name var : Container_name)  
{  
    //loop_body  
}
```

Note:

=>Extended for also known as 'Enhanced for loop' or 'for-each loop'.

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Ex-program:

wap to read and display multiple String objects using Array?

DemoArray2.java

```
package maccess;  
import java.util.*;
```

```

public class DemoArray2 {
    public static void main(String[] args) {
        Scanner s = new Scanner(System.in);
        System.out.println("Enter the number of String
Objects:");
        int n = Integer.parseInt(s.nextLine());
        String a[] = new String[n];
        System.out.println("Enter "+n+" String Objects");
        for(int i=0;i<=n-1;i++)
        {
            a[i] = new String(s.nextLine());
            //Adding Integer object to Array
        } //end of loop
        System.out.println("====Display Using Old for
loop====");
        for(int i=0;i<=n-1;i++)
        {
            System.out.println(a[i].toString());
        } //end of loop
        System.out.println("===Display Using Extended
for(Java5)===");
        for(String k : a)
        {
            System.out.println(k.toString());
        } //end of loop
        s.close();
    }
}

```

o/p:

Enter the number of String Objects:

3

Enter 3 String Objects

java is simple

java is sucured

java is Multi-Threaded

====Display Using Old for loop====

java is simple

java is secured

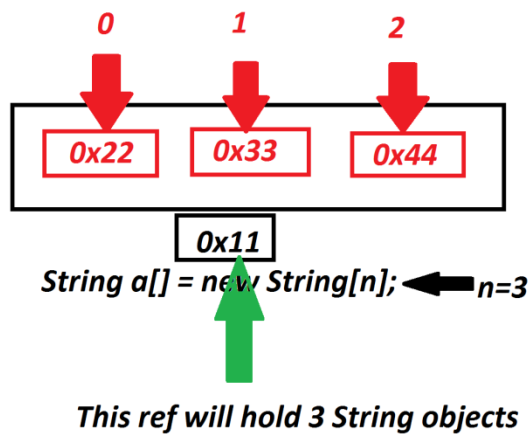
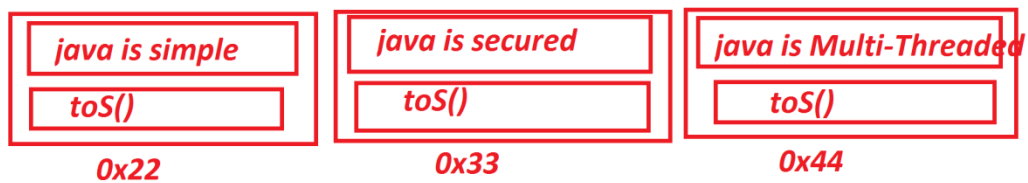
java is Multi-Threaded

===Display Using Extended for(Java5)===

java is simple

java is secured

java is Multi-Threaded



Assignment-1:

wap to read multiple String using array and display the reverse of Strings?

i/p:

java is simple

java is sucured

java is Multi-Threaded

o/p:

elpmis si avaj

derucs si avaj

dedaerht-itluM si avaj

=====

Assignment-2:

wap to read multiple Strings using array and display reverse of words in each String?

i/p:

java is simple

java is sucured

java is Multi-Threaded

o/p:

avaj si elpmis

avaj si derucus

avaj si dedaerht-itluM

=====

Assignment-3:

wap to read multiple Strings using array and display reverse of words in each String which starts with Vowel?

i/p:

java is one of Object oriented programming language

java is not complete Object oriented programming language

o/p:

java si eno fo tcejbo detneiro programming language

...

=====

Ex-Program:

wap to read and display multiple employee Objects using Array?

Employee.java

```
package test;
public class Employee {
    public String id,name,desg;
    public int bSal;
    public float totSal;
    public String toString() {
        return id+"\t"+name+"\t"+desg+"\t"+bSal+"\t"+totSal;
    }
}
```

DemoArray3.java(MainClass)

```
package maccess;
import test.Employee;
import java.util.*;
public class DemoArray3 {
    public static void main(String[] args) {
        Scanner s = new Scanner(System.in);
        System.out.println("Enter the number of Employees:");
        int n = Integer.parseInt(s.nextLine());
        Employee emp[] = new Employee[n];
    }
}
```

```

System.out.println("====Enter "+n+" Employee details====");

for(int i=0;i<=n-1;i++)
{
    System.out.println("*****Deatils of Employee-"+(i+1)+"*****");

    emp[i] = new Employee();

    System.out.println("Enter empld:");

    emp[i].id = s.nextLine();

    System.out.println("Enter empName:");

    emp[i].name = s.nextLine();

    System.out.println("Enter empDesg:");

    emp[i].desg = s.nextLine();

    System.out.println("Enter empBSal:");

    emp[i].bSal = Integer.parseInt(s.nextLine());

    if(emp[i].bSal<12000)
    {
        System.out.println("Invalid bSal...");

        i--;

        continue;//skip the below lines from iteration
    }//end of if

    emp[i].totSal=

        emp[i].bSal+(0.93F*emp[i].bSal)+(0.63F*emp[i].bSal);

    }//end of loop

System.out.println("====Display Employee details====");

for(Employee k : emp)

```

```
{  
    System.out.println(k.toString());  
}//end of loop  
s.close();  
}  
}
```

o/p:

Enter the number of Employees:

3

====Enter 3 Employee details====

******Deatils of Employee-1******

Enter empld:

A121

Enter empName:

Raj

Enter empDesg:

SE

Enter empBSal:

12000

******Deatils of Employee-2******

Enter empld:

A002

Enter empName:

Ram

Enter empDesg:

TE

Enter empBSal:

17000

******Deatils of Employee-3******

Enter empld:

A234

Enter empName:

REX

Enter empDesg:

ME

Enter empBSal:

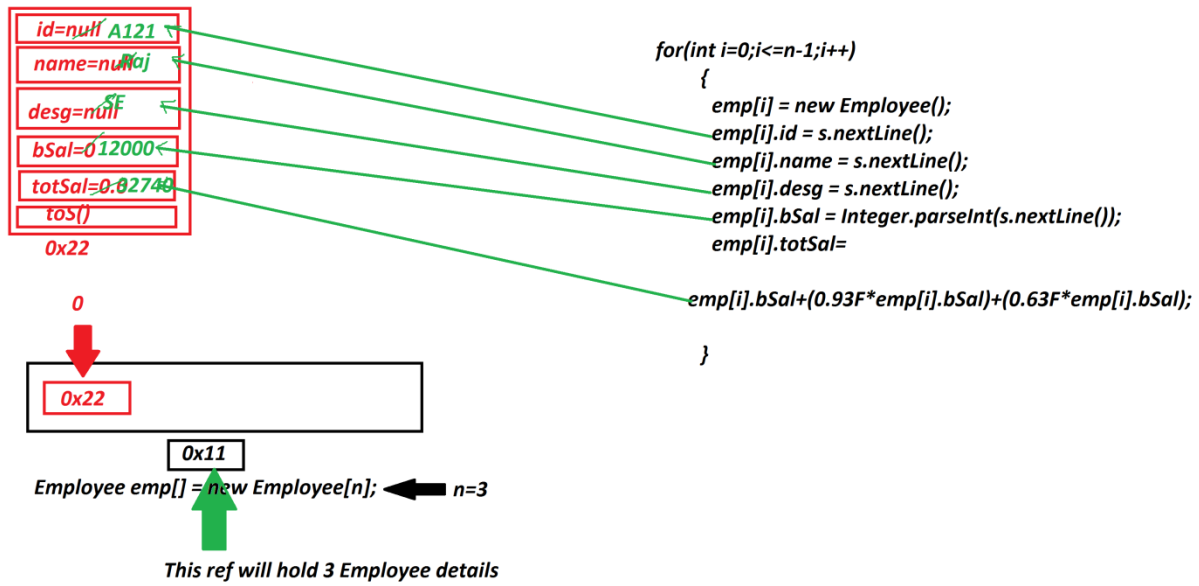
16000

====Display Employee details====

A121 Raj SE 12000 30720.0

A002 Ram TE 17000 43520.0

A234 REX ME 16000 40960.0



Assignment:

wap to read and display Multiple Product details using Array?

Assignment:

wap to read and display Multiple Book details using Array?