Chapter 7 Variable Argument in Java by Munawar

Variable Arguments

A function with variable argument can be created in java using the following syntax:

```java
static int plus(int ...arr){
    // int [] newArr;
    int result=0;
    for(int newArr:arr){
      result+=newArr;
    }
    return result;
}
```

Calling the method

```java
// calling varargs in java
System.out.println("Plus  is zero "+plus());
System.out.println("Plus the five numbers is : "+plus(3,4,5,6,7));
```

Source Code

```java
import java.util.Scanner;
public class Main {
    //before using varargs

//    static int sum(int a,int b){
//        return a+b;
//    }
//    static int sum(int a,int b,int c){
//        return a+b;
//    }

    // after using varargs
    static int plus(int ...arr){
        // int [] newArr;
        int result=0;
        for(int newArr:arr){
          result+=newArr;
        }
        return result;
    }
```

```java
    static int add(int a,int   ...arr){
        // int [] newArr;
        int result=0;
        for(int newArr:arr){
            result+=newArr+a;
        }
        return result;
    }
    public static void main(String[] args) {
// calling the methods before using varargs
//        System.out.println("Welcome to varargs in java");
//
//        System.out.println("The sum of a and b is   : "+sum(10,20));
//        System.out.println("The sum of a and b  and c is  :
"+sum(10,20,40));


        // calling varargs in java
        System.out.println("Plus  is zero "+plus());
        System.out.println("Plus the five numbers is : "+plus(3,4,5,6,7));
        System.out.println("Plus the ten numbers :
"+plus(2,3,5,2,1,3,5,7,8,5));

        // passing one parameter is must
        System.out.println("Calling the add method "+add(3,4));
    }

}
```

Thank You