

PROCEDURES DON'T RETURN VALUES

```
1 package usingdoubleandoutprogram;
2
3 import java.util. Scanner;
4
5 public class Main {
6
7     public static void doubleAndOut(int numOne)
8     {
9         System.out.println (numOne * 2);
10    }
11
12    public static void main(String[] args) {
13
14        Scanner keyedInput = new Scanner(System.in);
15
16        int firstNumber;
17        firstNumber = 5;
18
19        doubleAndOut(firstNumber);
20    }
21 }
22
```

FUNCTIONS DO RETURN VALUES

```
Start Page x Main.java x
1 package usingdoubleandoutprogram;
2
3 import java.util. Scanner;
4
5 public class Main {
6
7     public static int doubleIt(int numOne)
8     {
9         int tempVal;
10        tempVal = numOne * 2;
11        return (tempVal);
12    }
13
14
15    public static void main(String[] args) {
16
17        Scanner keyedInput = new Scanner(System.in);
18
19        int firstNumber, firstNumDoubled;
20        firstNumber = 5;
21
22        firstNumDoubled = doubleIt(firstNumber);
23        System.out.println (firstNumDoubled);
24    }

```

The diagram illustrates the flow of data between the `doubleIt` method and the `main` method. A red arrow points from the value `5` (assigned to `firstNumber` in the `main` method) to the `numOne` parameter of the `doubleIt` method. A blue arrow points from the return value `10` (calculated as `5 * 2` in the `doubleIt` method) to the `firstNumDoubled` variable in the `main` method.

Create a program that produces the following output:

```
Enter a number: 5
Enter a second number: 6

1... Add the two numbers
2... Subtract the two numbers
Your Choice: 1

The answer is 11.
```

Your adding and subtracting code has to be written as a function.

Create a program that prompts the user for a word and then outputs to the screen whether or not the word is a palindrome. You should create a palindrome function called isAPali that returns the value true or false.

Some pseudocode:

```
if (isAPali(userWord))
    {System.out.println ("The string " + userWord + " is a palindrome!");}
else {System.out.println ("The string " + userWord + " is not a palindrome!");}
```