

LOOPS SOLUTIONS

Solution 1: Hello is printed 2 times.

Solution 2:

```
import java.util.Scanner;
public class Solution {
   public static void main(String[] args) {
no");
```



Solution 3:

```
import java.util.Scanner;
public class Solution {
   public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        int num; // To hold number
        int fact = 1; // To hold factorial

        System.out.print("Enter any positive integer: ");
        num = sc.nextInt();

        for(int i=1; i<=num; i++) {
            fact *= i;
        }

        System.out.println("Factorial: "+ fact);
    }
}</pre>
```

Solution 4:

```
import java.util.*;
class MultiplicationTable {
   public static void printMultiplicationTable(int number) {
        Scanner sc = new Scanner(System.in);
        System.out.print("Enter number:");
        int n = sc.nextInt();
        for(int i=1; i<=10; i++) {
            System.out.println(n + " * " + i + " = " + n*i);
        }
    }
   public static void main(String s[]) {
        printMultiplicationTable(5);
   }
}</pre>
```

Solution 5:

Scope of variable is referred to the part of the program where the variable can be used.





In this program variable \pm is declared in the for loop. So scope of variable \pm is limited to the for loop only that is between $\{$ and $\}$ of the for loop. There is a display statement after the for loop where variable \pm is used which means \pm is used out of scope. This leads to compilation errors.

The program given will not run and give an error instead. To correct the program, the variable i needs to be declared outside the for loop.

