

Tricky Programs



game....

```
class MyMethod
{
    static int func1()
    {
        System.out.println("Inside Func1");
        return 10;
    }
    static int func2()
    {
        System.out.println("Inside Func2");
        return func1();
    }
    static int func3()
    {
        System.out.println("Inside Func3");
        return func1()+func2();
    }
    public static void main(String[] args)
    {
        System.out.println(func3());
    }
}
```

Output ?

Output

Inside Func3

Inside Func1

Inside Func2

Inside Func1

20

explanation in the next page

Try tracing the program:

1. first func3 is called.

Console: "Inside Func3" is printed

Explanation

2. Then func1()+func2() is executed which calls func1() first.

Console: "Inside Func1" is printed in the next line and 10 is returned.

The expression becomes:

```
return 10 + func2()
```

3. Then func2() is called.

Console: "Inside Func2" is printed. and func1 is called.

Console: "Inside Func1" is printed again and 10 is returned.

4. The return expression in func3() becomes 10 + 10

```
return 10+10 = return 20
```

5. This returned value 20 is printed finally.

Console: 20

O/p ?

```
class MyMethod
{
    static int func( int i)
    {
        return i++;
    }

    public static void main(String[] args)
    {
        int i=0;
        int j=i++ + i + func(i++) + ++i
            + func(i++) + i + --i + func(i--) + i + i
            + func(i--) + ++i;

        System.out.println(i);
        System.out.println(j);
    }
}
```

OUTPUT

2

26

`j= i++ + i + func(i++) + ++i`

`+ func(i++) + i + --i + func(i--) + i + i`

`+ func(i--) + ++i;`

`= 0 + 1 + func(1) + 3`

`+ func(3) + 4 + 3 + func(3) + 2 +2`

`+ func(2) + 2 ;`

`= 26`

and i becomes 2.

- public class Test {
- public static void main(String[] args) {
- method(null);
- }
- public static void method(Object o) {
- System.out.println("Object impl");
- }
- public static void method(String s) {
- System.out.println("String impl");
- }
- }

O/p:-

- String impl

THANK YOU