

NAME: _____

TRISECT INSTITUTE**JLAB-P1**

DATE: _____

Job Oriented Java

Instructions:

- 1) Open website www.compilejava.net [Online Coding IDE]
- 2) Delete the code already provided.
- 3) Code each of the following problem.
- 4) Hit COMPILE & EXECUTE. [We'll refer this as RUN button from now on]
- 5) If there were no errors then you will get output of your program.
- 6) If there were any compile time errors then rectify them and run your program again.

Common Mistakes

Java is a case sensitive language. Remember 'S' of 'String' and 'System' is in capital. All the keywords like public, class, static and void are in small.

Right Way	Wrong Way
<pre>public class ABC</pre> <p>[public and class are in small letters]</p>	<pre>Public class ABC PUBLIC class ABC Public Class ABC class ABC</pre>
<pre>public static void main(String[] args)</pre> <p>[public, static, void and main are in small letters] [notice brackets '[]' after String]</p>	<pre>public static void main(String args) public static void main(String[]) public static void main() main(String[] args) public static main(String[] args) public void main(String[] args) public static void Main(String[] args) static void main(String[] args)</pre>
<pre>String str = "trisection";</pre> <p>['S' in String is in capital]</p>	<pre>string str = "trisection"; String str = trisection;</pre>
<pre>System.out.println("hello");</pre> <p>['S' in System is in capital]</p>	<pre>system.out.println("hello"); System.out.println("hello"); Systemoutprintln("hello");</pre>

Task 1.1	Write the following code on screen then hit RUN button.
Problem	Given two numbers as input. Print the sum of these numbers.
<pre> 1 public class SumAB 2 { 3 public static void main(String[] args) 4 { 5 int a = 10; 6 int b = 20; 7 int sum = a + b; 8 System.out.println(sum); 9 } 10 }</pre>	

Task 1.2	Refer code from Task 1.1. Change the values of variables a and b to 23 and 77 respectively and RUN your code again.
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Common Mistakes with loop

Java is a case sensitive language. Remember 'S' of 'String' and 'System' is in capital. All the keywords like public, class, static and void are in small.

Right Way	Wrong Way
<pre>for(int i = 1; i < 2; i++) { //loop body }</pre>	<p>Adding semicolon at the end</p> <pre>for(int i = 1; i < 2; i++);</pre> <p>Not using brackets for loop body</p> <pre>for(int i = 1; i < 2; i++) //loop body //loop body</pre> <p>Using comma instead of semi-colon</p> <pre>for(int i = 1, i < 2, i++) { //loop body }</pre>

Task 2.1	Copy the template given below. Write your code for following problem in space provided.
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Problem	Given n as input. Print 1 to n on screen using a For loop.
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Code Template:

```
1 public class Task2
2 {
3     public static void main(String[] args)
4     {
5
6         //write code here
7
8     }
9 }
```

Task 2.2	Refer code from Task 2.1. Set value of n according to following table. Now RUN your code and check if your output matches with Expected Output.
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	Input	Expected Output
Test Cases	n = 2	1 2
	n = 3	1 2 3

Task 3	Print table of 2 in following format using For loop. Run your code.
<p>Expected Output:</p> <pre> Prod-1=2 Prod-2=4 . . . Prod-10=20 </pre>	

Task 4	Given n as input. Print sum of cube of all numbers from 1 to n. Check your output against following set of inputs.	
Test Cases	Input	Expected Output
	n = 2	9 [because $1^3 + 2^3 = 9$]
	n = 4	100 [because $1^3 + 2^3 + 3^3 + 4^3 = 100$]