NAME:	TRISECT INSTITUTE	JLAB-P2

ATE:	Job	Oriented	d Java
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Instructions:

- 1) Open website <u>www.compilejava.net</u> [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
public class ABC	Public class ABC
	PUBLIC class ABC
[public and class are in small letters]	Public Class ABC
	class ABC
<pre>public static void main(String[] args)</pre>	public static void main(String args)
	<pre>public static void main(String[])</pre>
[public, static, void and main are in	<pre>public static void main()</pre>
small letters]	main(String[] args)
[notice brackets '[]' after String]	<pre>public static main(String[] args)</pre>
	<pre>public void main(String[] args)</pre>
	<pre>public static void Main(String[] args)</pre>
	static void main(String[] args)
String str = "trisect";	<pre>string str = "trisect";</pre>
['S' in String is in capital]	String str = trisect;
System.out.println("hello");	<pre>system.out.println("hello");</pre>
['S' in System is in capital]	System.out.println("hello);
	Systemoutprintln("hello");

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>	Adding semicolon at the end for(int i = 1; i < 2; i++); Not using brackets for loop body for(int i = 1; i < 2; i++) //loop body //loop body Using comma instead of semi-colon

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```
for(int i = 1, i < 2, i++)
{
      //loop body
}
```

Task	k 1	Use the following template to code each problem.
Prob	Problem Print 1 to 8 on screen using a For loop.	
Cod	e Templa public c	
5	1	//write code here
6 7	}	

Task 2.1	Given n as input. Print 1 to n (in following format) on screen using a For loop. Output Format: Start 1 2	
	n	
	End	
Task 2.2	Now RUN your code and check if your output matches with Expected Output.	
	Input	Expected Output
	n = 2	Start
		1
		2
Test Cases		End
rest cases	n = 3	Start
		1
		2
		3
		End

Task 3	Given n as input. Print sum of 4 th power of all numbers from 1 to n. Check your output against following set of inputs.	
	Input	Expected Output
Test Cases	n = 2	17
rest cases		[because $1^4 + 2^4 = 17$]
	n = 4	354

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	[because $1^4 + 2^4 + 3^4 + 4^4 = 354$]

Task 4	Given n as input. Print product of all numbers from 1 to n.	
	Input	Expected Output
	n = 1	1
Test Cases	n = 5	120
		[because 1*2*3*4*5= 120]

Task 5	Print table of 5 in following format using For loop. Run your code.
Expected Output:	
EV4 E	
5X1=5	
5X2=10	
•	
•	
5X10=50	

Task 6	Given n as input. Print following pattern using For loop.	
	Input	Expected Output
	n = 3	#
		##
		###
Test Cases	n = 5	#
		##
		###
		####
		#####