

Unit Four Assignment Three:

Write a Java project (Applet) with just a driver class. This class requires only the `init()` method. This project should create a salary schedule for teachers at any school.

In the `init()` method, you should ask the user for 3 items.

Base Salary (10000 - 50000) - {Bachelors Degree No Experience}
Number of Lanes (3 - 6) - {Each lane represents more education}
Number of Steps (10 - 20) - {Each step is a year of experience}


All three numbers should be entered into an Input Dialog Box, with one space between each number. You may assume that the user's data will be acceptable. You can use the `String` method, `substring`, to separate the numbers or you can use the `StringTokenizer`. Once the main string is divided into 3 substrings, you must `parseInt` each of these substrings.

To create the Salary Schedule, you must use a nested looping structure. As you move from one lane to the next, the salary is increased by 9%. As you move from one step to the next, the salary is increased by 3%. All salaries in the Salary Schedule are to be integers. The Salary Schedule should be placed in a `JTextArea` and the `JTextArea` should be added to a `Container`.

NOTE: Do not use the formula for the n^{th} term of a geometric sequence. This formula will not truncate individual terms before moving to the next term. Therefore, you will be several dollars off by the time you get to the last term.

All input and output should be pasted into a Word document and turned in with your code. This Word document should look like the one attached to this assignment.

Input [X]


 Enter Base Salary (10000 - 50000),
 Enter Number of Lanes (3 - 6),
 Enter Number of Steps per Lane (10 - 20)

(Separate the numbers with single spaces)

Java Applet Window

Applet Viewer: U4A3.class [-] [] [X]

Applet

Salary Schedule

	1	2	3	4	5	6
1	34000	37060	40395	44030	47992	52311
2	35020	38171	41606	45350	49431	53879
3	36070	39316	42854	46710	50913	55495
4	37152	40495	44139	48111	52440	57159
5	38266	41709	45462	49553	54012	58873
6	39413	42960	46826	51040	55633	60639
7	40595	44248	48230	52570	57301	62458
8	41812	45575	49676	54146	59019	64330
9	43066	46941	51165	55769	60788	66258
10	44357	48349	52700	57443	62612	68247
11	45687	49798	54279	59164	64488	70291
12	47057	51292	55908	60939	66423	72401
13	48468	52830	57584	62766	68414	74571
14	49922	54414	59311	64648	70466	76807
15	51419	56046	61090	66588	72580	79112

Applet started.