Stat 404
Lab 9

SAS:

1. Copy and paste the following code into a SAS editor:

```
data expenses;
  Wages=12874000;
  Retire=1765000;
  Medical=649000;
  start=year(today())+1;
  stop=start+9;
run;

* the next DATA step will use the previous SAS dataset (expenses) to execute the DO loop.
The start and stop indexes are called stop and start.
;


data future_expenses;
  set expenses;
  drop start stop;

  * insert your DO loop and variable information here;

 run;
proc print data=future_expenses;
  format wages dollar14.2 retire dollar14.2 medical dollar14.2 total_cost dollar14.2;
  var year wages retire medical total_cost;
run;
```

2. Insert a DO loop containing statements to calculate the estimated values of Wages, Retire, and Medical.
    a. Use *start* and *stop* to control the values of the index-variable that you will name Year within your DO loop.
    b. Assume the estimated annual increase shown in the table below:

Variable	**Current value**	**Estimated annual increase**
Wages	$12.874,000	6% = 0.06
Retire	$1,765,000	1.4% = 0.014
Medical	$649,000	9.5% = 0.095

An example bit of code to help with the calculations for wages having a 6% yearly increase:

```
Wages=wages*1.06;
```

c. Create another variable called Total_cost that is the sum of the year's Wages, Retire, and Medical values.

d. Use the OUTPUT statement to see each year's results.

3. Use PROC PRINT to verify your results to make sure they look like mine:

Obs	year	Wages	Retire	Medical	total_cost
1	2015	$13,646,440.00	$1,789,710.00	$710,655.00	$16,146,805.00
2	2016	$14,465,226.40	$1,814,765.94	$778,167.23	$17,058,159.57
3	2017	$15,333,139.98	$1,840,172.66	$852,093.11	$18,025,405.76
4	2018	$16,253,128.38	$1,865,935.08	$933,041.96	$19,052,105.42
5	2019	$17,228,316.09	$1,892,058.17	$1,021,680.94	$20,142,055.20
6	2020	$18,262,015.05	$1,918,546.99	$1,118,740.63	$21,299,302.67
7	2021	$19,357,735.95	$1,945,406.64	$1,225,020.99	$22,528,163.59
8	2022	$20,519,200.11	$1,972,642.34	$1,341,397.99	$23,833,240.44
9	2023	$21,750,352.12	$2,000,259.33	$1,468,830.80	$25,219,442.24
10	2024	$23,055,373.25	$2,028,262.96	$1,608,369.72	$26,692,005.93