SAS Programming (BIOL-40190) – Programming Assignment 3 (20 points)

This assignment is due by the date shown on the Assignments page in Blackboard.

The document **Programming Assignment Submission Instructions.pdf** provides the details for submitting your completed assignment.

1-17 – Include your corrected code for Assignments 1 & 2.

Using the last data set that you created, generate the following output:

18 – Create this summary table using a single PROC REPORT. Do not use a data step or any other procedures (PROCs) for this item.

Summary of Mean Analyte Results by Weight Category and Sex

		Site					
		Aurora Health Associates			Sherwin Heights Healthcare		
Weight Category	Sex	Mean Result1	Mean Result2	Mean Result3	Mean Result1	Mean Result2	Mean Result3
<= Median Weight	Female	5.33	3.97	3.93	6.30		
	Male	1.87	3.03	3.97	6.00		
> Median Weight	Female	7.15	6.60	4.80	1.70	1.95	2.30
	Male	3.90	5.00	7.60	4.20	3.30	2.00

19 – Create this listing using a single PROC REPORT. Do not use a data step or any other procedures (PROCs) for this item.

Listing of Baseline Patient Characteristics

Patient	Dose Date	Age	Sex	Race	Weight Category	BMI	BMI Category	Analyte Result 1	Analyte Result 2	Absolute Change
J-06	01/03/1998	82	Female	Black	> Median Weight	36.0	Obese	4	4.2	0.2
J-07	01/10/1998	79	Male	Caucasian	<= Median Weight	22.7	Normal	2.3	3.4	1.1
J-08	02/08/1998	63	Male	Asian	<= Median Weight	35.9	Obese	1.9	4.3	2.4
J-09	01/11/1998	86	Male	Caucasian	<= Median Weight	25.1	Overweight	1.4	1.4	0
J-10	01/03/1998	79	Female	Black	> Median Weight	39.2	Obese	10.3	9	-1.3
J-11	12/14/1997	64	Female		<= Median Weight	27.3	Overweight	3.5	3.3	-0.2
J-12	01/17/1998	77	Male	Caucasian	> Median Weight	43.6	Obese	3.9	5	1.1
J-13	01/31/1998	65	Female	Other	<= Median Weight	36.1	Obese	4.7	7.3	2.6
J-14	01/04/1998	83	Female	Caucasian	<= Median Weight	28.8	Overweight	7.8	1.3	-6.5
R-08	01/24/1998	80	Male	Caucasian	> Median Weight	52.3	Obese	4	5.1	1.1
R-09	12/27/1997	77	Male	Black	> Median Weight	49.7	Obese	4.4	1.5	-2.9
R-10	02/21/1998	77	Male	Caucasian	<= Median Weight	27.8	Overweight	6		
R-15		68	Female	Black	<= Median Weight	24.7	Normal	6.3		
R-16	12/27/1997	85	Female	Asian	> Median Weight	33.4	Obese	1.6	1.6	0
R-24	02/07/1998	70	Female	Caucasian	> Median Weight	33.2	Obese	1.8	2.3	0.5

Use the following information to create the columns BMI Category and Absolute Change.

BMI	Category
< 18.5	Underweight
18.5 to < 25	Normal
25 to < 30	Overweight
30 or more	Obese

Absolute Change is the difference between Analyte Result 2 and Analyte Result 1.

Before submitting your assignment, please ensure that your code and files meet the following criteria:
*** Your code conforms to the item specifications and coding methodology.
*** Your code is in sequential order and contains comments clearly identifying by item number the code for each item.
*** Your code properly accounts for missing values.
*** Missing values in your data set are left as missing and not artificially populated with values such as the word “Missing”.
*** Your code conforms to good programming practices by using white space, proper indentation, comments, etc.
*** Your completed program may also need other statements that are implied but not specified.
*** Your log file does not contain any ERROR or WARNING messages.
*** Your files are flat files with the proper file extensions (.sas and .log).