Assignment Kit # 4

Process version: PSP1 Lecture Number: 4

Assignment:

	Text Read the last half of Chapter 5.		
Program 4A Use PSP1 to write program 4		Program 4A	Use PSP1 to write program 4A to calculate the linear regression
			parameters from a linked list.

Before writing program 4A, read the process and exercise specifications in Appendices C and D.

Assignment Kit 4 Contents	Instructions	Order to submit assignment
PSP1 Process Scripts		PSP1 Project Plan Summary
C30 PSP1 Script	n/a	Test Report
C31 PSP1 Planning Script	n/a	PIP form, including lessons
		learned
C32 PSP1 Development Script	n/a	Size Estimating Template
C33 PSP1 Postmortem Script	n/a	Time Recording Log
C36 PROBE Estimating Script	n/a	Defect Recording Log
Forms, Templates, and Standards		Source program listing
C34 PSP1 Project Plan Summary	C35	Other requested materials
C37 Test Report Template	C38	
C39 Size Estimating Template	C40	
C27 Process Improvement Proposal	C28	
C29 Coding Standard	n/a	
C16 Time Recording Log	C17	
C18 Defect Recording Log	C19	
C20 Defect Type Standard	n/a	

Table C34 PSP1 Project Plan Summary

Student	Michael Monag	ıhan		Date	2/23/15
Program	Linear Regress			Program i	
Instructor	Dr. Concepcior			Language	Java
Summary LOC/Hour		Plan 20		Actual	To Date
Program Size (L Base(B)	OC):	Plan 50 (Measured)	<u>53</u>	Actual (Measured)	To Date
Deleted (D)		(Estimated)	<u> </u>	(Counted)	
Modified (M)		(Estimated)	0	(Counted)	
Added (A)		50 (N-M)	<u>53</u>	(T-B+D-R)	
Reused (R)		(Estimated)	<u> </u>		0
Total New & Cha	inged (N)	(Estimated)	<u>53</u>		53
Total LOC (T)		50 (N+B-M-D+R	<u>53</u>		53
Total New Reuse	d	50	<u>53</u>		53
Time in Phase (n Planning Design Code Compile Test Postmortem Total	nin.)	Plan 15 15 4:00 0 15 15 5:00	Actual 12 10 4:45 0 30 10 5:47	To Date 12 10 4:45 0 30 10 5:47	To Date % 3% 2% 82% 0% 9% 2% 100%
Planning Design Code Compile Test Total Developm	nent		Actual 0 0 0 0 0 0 0 2 2 2	To Date 0 0 0 0 2 2	To Date % 0 0 0 0 0 0 2
Planning Design Code Compile Test Total Development	nent		Actual 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	To Date 0 0 0 0 2 2 0	To Date % 0% 0% 0% 0% 0% 100%

Table C37 Test Report Template

Student	Date
Instructor	Program #
Test Name/Number	
Test Objective	
Test Description	
Test Conditions	
Expected Results	
Actual Results	
Test Name/Number	
Test Objective	
Test Description	
1	
Test Conditions	
Expected Results	
1	
Actual Results	

TABLE C39 SIZE ES	STIMATIN	G TEM	PLATE			
Student Date Instructor Program						
					m#	
BASE PROGRAM LO BASE SIZE (B) =		=> =	> =>		ESTIMATE	ACTUAL
LOC DELETED (D)	=> =>	=> =	> =>	=> => =>		
LOC MODIFIED (M	1) => =>	=>=	> =>	=> => =>		
OBJECT1OC			£			
BASE ADDITIONS	TYPE1	METH	ODS	REL. SIZE	LOC	LOC
TOTAL BASE ADDIT	ONS (BA)=	=> =>	=> =	:> => =>		
NEW OBJECTS	TYPE	METH	ODS	REL. SIZE	LOC (New	Reused*)
		-				
						
				-		
TOTAL MENU 00 1500					* * * * * * * * * * * * * * * * * * * *	
TOTAL NEW OBJECT	IS (NO)=>	=>=	> =>	=> => =>		
REUSED OBJECTS						

			<u> </u>			
		-				
REUSED TOTAL (R	1 => =>	=>=	> =>	=> =>		
					SIZE	TIME
Estimated Object LOC	(E):		E=B	A+NO+M	0.22	
Regression Parameters:			β_0 (s	ize and time)		
Regression Parameters:			β ₁ (s	ize and time)		
Estimated New and Cha	anged LOC	(N):	N=β	₀ +β ₁ *Ε		
Estimated Total LOC: T=N+B-D-				+B-D-M+R		
Estimated Total New Re	euse (sum d	of * LOC):			
Estimated Total Develop	oment Time	:	Time	$=\beta_0+\beta_1^*E$		
Prediction Range:			Rang			
Upper Prediction Interva	al:		UPI=	N+Range		SE 1140
Lower Prediction Interva	al:		LPI=	N-Range		
Prediction Interval Perce	ent:					

¹L=Logic, I=I/O, C=Calculation, T=Text, D=Data, S=Set-up