## SSN COLLEGE OF ENGINEERING

# UIT2201 — Programming and Data Structures

PSP Exercise — 01

**U. PRANAAV** 

Reg No: 3122225002093 Section: IT-B

### **Table C14 PSP0 Project Plan Summary**

Student	U. Pranaav			Date	11.04.2023
Program	text_count.py		Program #	PSP0-Ex-01	
Instructor	Dr. K. S. Gayatl	nri		Language	Python
Time in Phase (	min.)	Plan	Actual	To Date	To Date %
Planning		50	70	70	17.94
Design		90	100	170	43.59
Code		120	140	310	78.05
Compile		-		-	
Test		70	80	390	100.00
Postmortem		-	_	_	_
Total		330	390	390	100.00
<b>Defects Injected</b>	d		Actual	To Date	To Date %
Planning			1	1	9.09
Design			2	3	27.27
Code			5	8	72.72
Compile			_		-
Test			3	11	100.00
Total Develop	oment		11	11	100.00
Defects Remove	ed		Actual	To Date	To Date %
Planning			1	1	9.09
Design			2	3	27.27
Code			5	8	72.72
Compile					
Test			3	11	100.00
Total Develop	oment		11	11	100.00
After Developr					

### Table C16 Time Recording Log

StudentU. PranaavDate11.04.2023InstructorDr. K. S. GayathriProgram #PSP0-Ex-01

Date	Start	Stop	Interruption Time	Delta Time	Phase	Comments	
11.04.2023	10:20	11:40	10 minutes	70 minutes	Planning	Trying to find all the required modules, functions and operations required.	
11.04.2023	11:40	12:35	5 minutes	50 minutes	Designing	Trying to design a suitable pseudocode that can be implemented.	
11.04.2023	17:40	19:00	15 minutes	65 minutes	Coding	Issues arising due to writing into file.	
11.04.2023	20:00	20:20		20 minutes	Testing	Testing the writing capabilities.	
12.04.2023	18:20	19:10	10 minutes	40 minutes	Coding	Most issues have been solved, final part to be completed soon.	
15.04.2023	16:30	17:30	10 minutes	50 minutes	Coding	The program has been fully completed, testing needs to be done.	
16.04.2023	8:00	8:45	5 minutes	40 minutes	Debugging	Running new test cases created new errors which needed to be fixed.	
17.04.2023	17:30	18:20	10 minutes	40 minutes	Testing	Testing for all test cases and adding new test cases.	
17.04.2023	18:30	18:40		10 minutes	Testing and Debugging	Removing any final errors that arose during testing phase.	
17.04.2023	18:40	18:45		5 minutes	Testing	Final testing for ensuring code functions in all possible scenarios.	

Defect Types
10 Documentation 60 Checking
20 Syntax 70 Data
30 Build, Package 80 Function
40 Assignment 90 System
50 Interface 100 Environment

### **Table C18 Defect Recording Log**

Student	Student U. Pranaav					11.04.2023	
Instructor Dr. K. S. Gayathri					Program #	PSP0-Ex-01	
Date	Number	Туре	Inject	Remove	Fix Time	Fix Defect	
11.04.2023	30	Package	Coding.	Testing.	30	80	
					minutes		
Description:		use package glob					
		ecursively. Remo			lted in a section	of a function	
Being render	ed unused, wl	hich was later rec	tified and rem	oved.			
Date	Number	Type	Inject	Remove	Fix Time	Fix Defect	
11.04.2023	80	Function	Coding.	Coding.	20	10	
					minutes		
Description:		glob package was					
		ering the section of	of the code to a	accommodate t	he newer more e	efficient method	
	nd writing the						
Date	Number	Type	Inject	Remove	Fix Time	Fix Defect	
11.04.2023	10	Documen	Coding.	Coding.	5 minutes	None	
Description:	Do umiting	tation					
Description:	Ke writing	g documentation.					
Data	Number	Typo	Inject	Pamova	Fix Time	Fix Defect	
Date 11.04.2023	80	Type Function	Coding.	Remove Testing.	30	70	
11.04.2023	80	Pulletion	Coung.	resung.	minutes	70	
Description:	Received	an error: Unicode	error due to	which files we		properly hence	
Description: Received an error: Unicode error, due to which files were not being read properly hence  Code needed to be modified by adding in encoding='utf-8' to prevent any errors.							
Code needee	to be mount	od by adding in ci	icounig— uti-c	to prevent ar	ly Citors.		
Date	Number	Туре	Inject	Remove	Fix Time	Fix Defect	
12.04.2023	70	Data	Coding.	Testing.	40	None	
	70	Data	Counig.	resting.	minutes	TVOIC	
Description:	Fixing the	Unicode error le	ad to error in r	eading data in		them into a text	
-		xed by typecastin					
text files.	· Ellor was in	nea by typecastin	ig the witting e	ontents into st	r octore asing in	e witting into	
Date	Number	Туре	Inject	Remove	Fix Time	Fix Defect	
16.04.2023	20	Syntax	Testing.	Testing.	1 minute	None	
Description:		sues arising due to				2.0000	
2 June 100000 alloing and to incoming )							
Date	Number	Туре	Inject	Remove	Fix Time	Fix Defect	
17.04.2023	10	Docume	Coding.	Coding.	10	None	
		ntation	o ding.	o o danig.	minutes	1,010	
Description: Writing appropriate documentation and editing invalid documentations.							
Date	Number	Type	Inject	Remove	Fix Time	Fix Defect	
17.04.2023	80	Function	Testing.	Testing.	20	None	
					minutes		
Description: A function was performing additional operations that were unnecessary and consumed							
excess time, the code was modified and excess operations were removed to optimize code.							