

Function	#	Description	Sample Input Data	Expected Output	Actual Output	P/F	NOTES
count_project	1	Counts the amount of projects that are stored in the Project struct array with given ID.	Create Powerpoint. Produce Videos. Paint Shed.	[7363] Create Powerpoint. [6731] Produce Videos. [7642] Paint Shed.	[7363] Create Powerpoint. [6731] Produce Videos. [7642] Paint Shed.	P	[ID] Project Name. Where is ID is randomly generated, and Project Name is inputted by the user.
	2	Counts the amount of projects that are stored in the Project struct array with given ID. (Single)	Paint Shed	[7642] Paint Shed.	[7642] Paint Shed.	P	
	3	Counts the amount of projects that are stored in the Project struct array with given ID. (Empty)	0	0	0	P	
count_task	1	Counts the amount of tasks that are stored in the Task struct array with given ID.	Gather Information. Buy Software. Get Tape and Planks.	[2353] Gather Information. [6357] Buy Software. [7691] Get Tape and Planks.	[2353] Gather Information. [6357] Buy Software. [7691] Get Tape and Planks.	P	[ID] Task Name. Where is ID is randomly generated, and Task Name is inputted by the user.
	2	Counts the amount of tasks that are stored in the Task struct array with given ID. (Single)	Buy Software.	[6357] Buy Software.	[6357] Buy Software.	P	
	3	Counts the amount of tasks that are stored in the Task struct array with given ID. (Empty)	0	0	0	P	
find_task_in_array	1	Looks for a specific task in the array based on a user input.	2981, 4526, 7612	[2981] Gather Information. [4526] Buy Software. [7612] Get Tape and Planks.	[2981] Gather Information. [4526] Buy Software. [7612] Get Tape and Planks.	P	
	2	Looks for a specific task in the array based on a user input. (Invalid Task ID input)	6357	"Invalid task ID!"	"Invalid task ID!"	P	
	3	Looks for a specific task in the array based on a user input. (Empty)	0	"Invalid task ID!"	"Invalid task ID!"	P	
find_progID	1	Looks for a specific project in the array based on a user input.	3838, 4581, 1885	[3838] Create Powerpoint. [4581] Produce Videos. [1885] Paint Shed.	[3838] Create Powerpoint. [4581] Produce Videos. [1885] Paint Shed.	P	
	2	Looks for a specific project in the array based on a user input. (Invalid Project ID input)	6731	"Invalid project ID!"	-1	P	
	3	Looks for a specific project in the array based on a user input. (Empty)	0	"Invalid project ID!"	-1	P	
find_ID	1	Looks for a specific user in the array based on a user input.	1455, 3274, 9834	[1455] George [3274] LOLS [9834] Applied	[1455] George [3274] LOLS [9834] Applied	P	[ID] Username. Where ID is randomly generated, and Username is created by Admin.
	2	Looks for a specific user in the array based on a user input. (Invalid User ID input)	327	"Invalid User ID!"	"Invalid User ID!"	P	
	3	Looks for a specific user in the array based on a user input. (Empty)	0	"Invalid User ID!"	"Invalid User ID!"	P	
verify_login	1	Authenticates if user input is active within the database.	Username: George Password: tempass	*Manager Access*	*Manager Access*	P	tempass is the base Password given to every added user in the database.
	2	Authenticates if user input is active within the database. (Invalid Password Input)	Username: George Password: tempass123	"INVALID USERNAME OR PASSWORD"	"INVALID USERNAME OR PASSWORD"	P	
	3	Authenticates if user input is active within the database. (Invalid Username Input)	Username: George654 Password: tempass	"INVALID USERNAME OR PASSWORD"	"INVALID USERNAME OR PASSWORD"	P	
count_personnel	1	Counts the number of personnel that are stored in the personnel struct array.	ID: 9908: Name: Gunt ID: 3779: Name: George ID: 4412 Name: Law	3	3	P	
	2	Counts the number of personnel that are stored in the personnel struct array. (Single)	ID: 3779: Name: George	1	1	P	
	3	Counts the number of personnel that are stored in the personnel struct array. (Empty)	0	0	0	P	
is_within_dates	1	Lists down the number of personnel that are stored in the peronnel struct array.	9908, 3779, 4412	ID: 9908: Name: Gunt ID: 3779: Name: George ID: 4412 Name: Law	ID: 9908: Name: Gunt ID: 3779: Name: George ID: 4412 Name: Law	P	
	2	Lists down the number of personnel that are stored in the peronnel struct array. (Single)	9908	ID: 9908: Name: Gunt	ID: 9908: Name: Gunt	P	
	3	Lists down the number of personnel that are stored in the peronnel struct array. (Empty)	0	0	0	P	
compute_completion & project_completion	1	Computes the completion percentage of a project with none of the tasks done.	[4581] Produce Videos.	0.00%	0.00%	P	Follows the computation: (Tasks done / Total tasks) * 100
	2	Computes the completion percentage of a project with half of the tasks done.	[4581] Produce Videos.	50.00%	50.00%	P	
	3	Computes the completion percentage of a project with all of the tasks done.	[4581] Produce Videos.	100.00%	100.00%	P	
days_in_month	1	Returns the number of days there are in a given month.	01/31/2022 to 03/01/2022	01 - January - 1 02 - February - 28 03 - March - 1	01 - January - 1 02 - February - 28 03 - March - 1	P	

	2	Returns the number of days there are in a given month. (Leap Year)	01/31/2020 to 03/01/2020	01 - January - 1 02 - February - 29 03 - March - 1	01 - January - 1 02 - February - 29 03 - March - 1	P	
	3	Returns the number of days there are in a given month. (Extensive)	01/01/2020 to 03/31/2020	01 - January - 31 02 - February - 29 03 - March - 31	01 - January - 31 02 - February - 29 03 - March - 31	P	
days_between_dates	1	Counts the number of days between two given dates.	01/31/2022 to 03/01/2022	30	30	P	
	2	Counts the number of days between two given dates. (Leap Year)	01/31/2022 to 03/01/2022	31	31	P	
	3	Counts the number of days between two given dates. (Extensive)	01/01/2020 to 03/31/2020	91	91	P	
show_project_details	1	Displays all the necessary information or data associated with a given project.	[3838] Create Powerpoint.	3838 Create Powerpoint. 2 50.0000 Powerpoint for Friday class	3838 Create Powerpoint. 2 50.0000 Powerpoint for Friday class	P	Project details follows the format: <Project ID> <Project Name> <Status> <Completion> <Description>
	2	Displays all the necessary information or data associated with a given project. (Invalid)	[38384] Create Powerpoint.	"Invalid project ID!"	"Invalid project ID!"	P	
	3	Displays all the necessary information or data associated with a given project. (Empty)	0	"Invalid project ID!"	"Invalid project ID!"	P	
show_delayed_tasks	1	Displays all the tasks that are well above the given end date.	[3838] Create Powerpoint.	[4523] Inform groupmates. [7641] Assign presenter.	[4523] Inform groupmates. [7641] Assign presenter.	P	
	2	Displays all the tasks that are well above the given end date. (All up to date)	[7642] Paint Shed.	0	0	P	
	3	Displays all the tasks that are well above the given end date. (All delayed)	[6731] Produce Videos.	[1532] Download Software. [7622] Download Videos. [2284] Download Soundtrack.	[1532] Download Software. [7622] Download Videos. [2284] Download Soundtrack.	P	
is_within_dates	1	Determines whether a given date is between the start and end date of a task or project.	2/13/2022	1	1	P	
	2	Determines whether a given date is between the start and end date of a task or project. (Not Within)	4/13/2022	0	0	P	
	3	Determines whether a given date is between the start and end date of a task or project. (On end date)	4/11/2022	1	1	P	
show_todays_task	1	Shows the specific task that is designated to be completed on a specific date.	2/13/2022	[5463] Create group chat.	[5463] Create group chat.	P	
	2	Shows the specific task that is designated to be completed on a specific date. (Empty)	4/13/2022	0	0	P	
	3	Shows the specific task that is designated to be completed on a specific date. (Multiple)	2/15/2022	[7622] Download Videos. [2284] Download Soundtrack.	[7622] Download Videos. [2284] Download Soundtrack.	P	
Show_All_Assigned_task	1	Displays all the allocated tasks for a given User ID.	ID: 3779: Name: George	[3245] Buy paint. [7742] Hire workmen. [1429] Remove roof.	[3245] Buy paint. [7742] Hire workmen. [1429] Remove roof.	P	
	2	Displays all the allocated tasks for a given User ID. (Empty)	ID: 9908: Name: Gunt	0	0	P	
	3	Displays all the allocated tasks for a given User ID. (Single)	ID: 9834: Name: Applied	[7622] Download Videos.	[7622] Download Videos.	P	
compareDate	1	Differentiates two given dates and gives an integer based on results.	05/31/2022 and 03/01/2022	0	0	P	
	2	Differentiates two given dates and gives an integer based on results. (Valid)	01/31/2022 and 03/01/2022	1	1	P	
	3	Differentiates two given dates and gives an integer based on results. (Same Day)	01/31/2022 and 01/31/2022	1	1	P	
count_sched	1	Counts the number of tasks that are within and beyond schedule.	2/13/2022	[2] Tasks within sched [0] Tasks beyond sched	[2] Tasks within sched [0] Tasks beyond sched	P	
	2	Counts the number of tasks that are within and beyond schedule. (Empty)	3/15/2022	[0] Tasks within sched [0] Tasks beyond sched	[0] Tasks within sched [0] Tasks beyond sched	P	
	3	Counts the number of tasks that are within and beyond schedule. (Mixed)	6/21/2022	[5] Tasks within sched [7] Tasks beyond sched	[5] Tasks within sched [7] Tasks beyond sched	P	
counts_tasks_of_user	1	Counts the number of tasks that are assigned to a specific user.	ID: 3779: Name: George	User 3779 has 6 tasks!	User 3779 has 6 tasks!	P	

	2	Counts the number of tasks that are assigned to a specific user. (Empty)	ID: 9908: Name: Gunt	User 9908 has 0 tasks!	User 9908 has 0 tasks!	P	
	3	Counts the number of tasks that are assigned to a specific user. (Single)	ID: 9834: Name: Appld	User 9834 has 1 tasks!	User 9834 has 1 tasks!	P	
updateFile	1	Rewrites the contents of the "preloaded" text file with personnel data. (Initial)	0	0000, a, a, 1, 1	0000, a, a, 1, 1	P	Preloaded.txt stores data with the format: <User ID> <Name> <Username> <Password> <Active> <Access>
	2	Rewrites the contents of the "preloaded" text file with personnel data.	George	0000, a, a, 1, 1, 3779, George, tempass, 1, 1	0000, a, a, 1, 1, 3779, George, tempass, 1, 1	P	
	3	Rewrites the contents of the "preloaded" text file with personnel data. (Multiple)	George, Gunt	0000, a, a, 1, 1, 3779, George, tempass, 1, 1, 9908, Gunt, tempass, 1, 1	0000, a, a, 1, 1, 3779, George, tempass, 1, 1, 9908, Gunt, tempass, 1, 1	P	
put_task_in_file	1	Rewrites the contents of the "tasks" texts file with new inputted tasks. (Initial)	0	0	0	P	Task Details follows the format: <taskID> <name> <sequence> <description> <projectID> <startdate> <enddate> <totalduration> <status> <personnellID> <new line>
	2	Rewrites the contents of the "tasks" texts file with new inputted tasks.	Download Videos.	7622 Download Videos. 1 For Project tom 9499 03/12/2022 03/15/2022 85.000 1 5723	7622 Download Videos. 1 For Project tom 9499 03/12/2022 03/15/2022 85.000 1 5723	P	
	3	Rewrites the contents of the "tasks" texts file with new inputted tasks. (Single Character)	a	4476 a 2 test 5633 03/14/2022 03/19/2022 0.000 2 1154	4476 a 2 test 5633 03/14/2022 03/19/2022 0.000 2 1154	P	
put_projects_in_array	1	Rewrites the contents of the "Project" text file into an array. (Initial)	0	0	0	P	
	2	Rewrites the contents of the "Project" text file into an array.	Paint Shed.	1885 Paint Shed. 1 36.447 For decorations	1885 Paint Shed. 1 36.447 For decorations	P	
	3	Rewrites the contents of the "Project" text file into an array. (Multiple)	Paint Shed. Produce Videos.	1885 Paint Shed. 1 36.447 For decorations 4581 Produce Videos. 2 32.22 For org	1885 Paint Shed. 1 36.447 For decorations 4581 Produce Videos. 2 32.22 For org	P	
add_user	1	Generates data for a user and is stored in "personnel" text file. (Initial)	0	0	0	P	
	2	Generates data for a user and is stored in "personnel" text file.	George	3779, George, tempass, 1, 1	3779, George, tempass, 1, 1	P	
	3	Generates data for a user and is stored in "personnel" text file. (Multiple)	George, Gunt	3779, George, tempass, 1, 1, 9908, Gunt, tempass, 1, 1	3779, George, tempass, 1, 1, 9908, Gunt, tempass, 1, 1	P	
put_proj_in_file	1	Allocates project details into the "project" text fie. (Initial)	0	0	0	P	
	2	Allocates project details into the "project" text fie.	Paint Shed.	1885 Paint Shed. 1 36.447 For decorations	1885 Paint Shed. 1 36.447 For decorations	P	
	3	Allocates project details into the "project" text fie. (Multiple)	Paint Shed. Produce Videos.	1885 Paint Shed. 1 36.447 For decorations 4581 Produce Videos. 2 32.22 For org	1885 Paint Shed. 1 36.447 For decorations 4581 Produce Videos. 2 32.22 For org	P	
put_personnels_in_array	1	Allocates the contents of the "preloaded" text file into an array. (Initial)	0	0	0	P	
	2	Allocates the contents of the "preloaded" text file into an array.	George	3779, George, tempass, 1, 1	3779, George, tempass, 1, 1	P	
	3	Allocates the contents of the "preloaded" text file into an array. (Multiple)	George, Gunt	3779, George, tempass, 1, 1, 9908, Gunt, tempass, 1, 1	3779, George, tempass, 1, 1, 9908, Gunt, tempass, 1, 1	P	
update_user	1	Edits the already-existing data found in the personnel struct array. (Initial)	0	0	0	P	
	2	Edits the already-existing data found in the personnel struct array.	George Access: 2	3779, George, tempass, 1, 2	3779, George, tempass, 1, 2	P	
	3	Edits the already-existing data found in the personnel struct array. (Multiple)	George Access: 2 Gunt Password: Jazz	3779, George, tempass, 1, 2, 9908, Gunt, Jazz, 1, 1	3779, George, tempass, 1, 2, 9908, Gunt, Jazz, 1, 1	P	
delete_user	1	Removes a user from the personnel struct array. (Initial)	3779, George, tempass, 1, 2, 9908, Gunt, Jazz, 1, 1	3779, George, tempass, 1, 2, 9908, Gunt, Jazz, 1, 1	3779, George, tempass, 1, 2, 9908, Gunt, Jazz, 1, 1	P	
	2	Removes a user from the personnel struct array.	3779	9908, Gunt, Jazz, 1, 1	9908, Gunt, Jazz, 1, 1	P	
	3	Removes a user from the personnel struct array. (Multiple)	3779, 9908	0	0	P	
archive_user	1	Disables access to the program to the given user ID. (Initial)	0	3779, George, tempass, 1, 2, 9908, Gunt, Jazz, 1, 1	3779, George, tempass, 1, 2, 9908, Gunt, Jazz, 1, 1	P	
	2	Disables access to the program to the given user ID.	3779	3779, George, tempass, 2, 2	3779, George, tempass, 2, 2	P	

	3	Disables access to the program to the given user ID. (Multiple)	3779, 9908	3779, George, tempass, 2, 2, 9908, Gunt, Jazz, 2, 1	3779, George, tempass, 2, 2, 9908, Gunt, Jazz, 2, 1	P	
assign_project	1	Allocates a project from the Project struct to a given user. (Initial)	0	[3779] George: 0	[3779] George: 0	P	
	2	Allocates a project from the Project struct to a given user.	[1885] Paint Shed.	[3779] George: [1885] Paint Shed.	[3779] George: [1885] Paint Shed.	P	
	3	Allocates a project from the Project struct to a given user. (Multiple)	[4581] Produce Videos. [1885] Paint Shed.	[3779] George: [4581] Produce Videos. [1885] Paint Shed.	[3779] George: [4581] Produce Videos. [1885] Paint Shed.	P	
assign_task	1	Allocates a task to the specific user present in the personnel struct array. (Initial)	0	[3779] George: 0	[3779] George: 0	P	
	2	Allocates a task to the specific user present in the personnel struct array.	[4526] Buy Software.	[3779] George: [4526] Buy Software.	[3779] George: [4526] Buy Software.	P	
	3	Allocates a task to the specific user present in the personnel struct array. (Multiple)	[4526] Buy Software. [7612] Get Tape and Planks.	[3779] George: [4526] Buy Software. [7612] Get Tape and Planks.	[3779] George: [4526] Buy Software. [7612] Get Tape and Planks.	P	
add_project	1	Adds a new project into the struct array. (Initial)	0	0	0	P	
	2	Adds a new project into the struct array.	Paint Shed.	1885 Paint Shed. 1 36.447 For decorations	1885 Paint Shed. 1 36.447 For decorations	P	
	3	Adds a new project into the struct array. (Multiple)	Paint Shed. Produce Videos.	1885 Paint Shed. 1 36.447 For decorations 4581 Produce Videos. 2 32.22 For org	1885 Paint Shed. 1 36.447 For decorations 4581 Produce Videos. 2 32.22 For org	P	
add_task	1	Creates a new task and stores it into the struct array. (Initial)	0	0	0	P	
	2	Creates a new task and stores it into the struct array.	Download Videos.	7622 Download Videos. 1 For Project tom 9499 03/12/2022 03/15/2022 85.000 1 5723	7622 Download Videos. 1 For Project tom 9499 03/12/2022 03/15/2022 85.000 1 5723	P	
	3	Creates a new task and stores it into the struct array. (Single Character)	a	4476 a 2 test 5633 03/14/2022 03/19/2022 0.000 2 1154	4476 a 2 test 5633 03/14/2022 03/19/2022 0.000 2 1154	P	
update_task	1	Rewrites a given task with new details provided by the user. (Initial)	0	7622 Download Videos. 1 For Project tom 9499 03/12/2022 03/15/2022 85.000 1 5723	7622 Download Videos. 1 For Project tom 9499 03/12/2022 03/15/2022 85.000 1 5723	P	
	2	Rewrites a given task with new details provided by the user.	[7622] Download Videos. Name: Down. Vids.	7622 Down. Vids. 1 For Project tom 9499 03/12/2022 03/15/2022 85.000 1 5723	7622 Down. Vids. 1 For Project tom 9499 03/12/2022 03/15/2022 85.000 1 5723	P	
	3	Rewrites a given task with new details provided by the user. (Assigned ID)	[7622] Download Videos. ID: 1234	1234 Download Videos. 1 For Project tom 9499 03/12/2022 03/15/2022 85.000 1 5723	1234 Download Videos. 1 For Project tom 9499 03/12/2022 03/15/2022 85.000 1 5723	P	
Update_Task_Status	1	Rewrites the status of a given task. (Initial)	[7622] Download Videos. Status: 0	7622 Download Videos. 1 For Project tom 9499 03/12/2022 03/15/2022 85.000 1 5723	7622 Download Videos. 1 For Project tom 9499 03/12/2022 03/15/2022 85.000 1 5723	P	
	2	Rewrites the status of a given task.	[7622] Download Videos. Status: [3] Done	7622 Download Videos. 1 For Project tom 9499 03/12/2022 03/15/2022 85.000 3 5723	7622 Download Videos. 1 For Project tom 9499 03/12/2022 03/15/2022 85.000 3 5723	P	
	3	Rewrites the status of a given task. (Same Input)	[7622] Download Videos. Status: [1] Not Started	7622 Download Videos. 1 For Project tom 9499 03/12/2022 03/15/2022 85.000 1 5723	7622 Download Videos. 1 For Project tom 9499 03/12/2022 03/15/2022 85.000 1 5723	P	