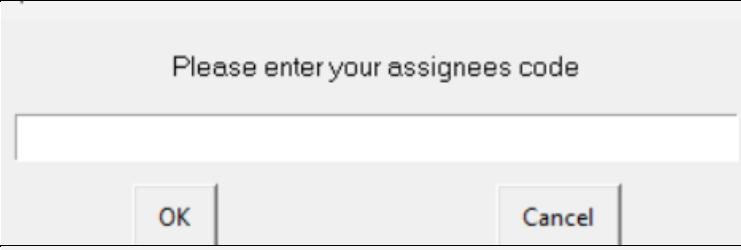
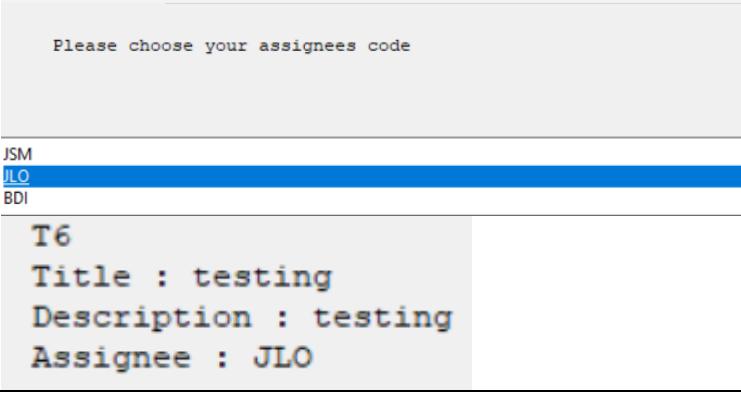
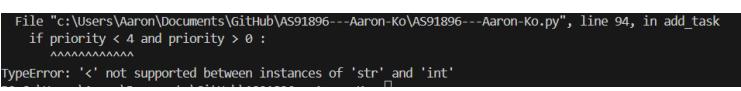
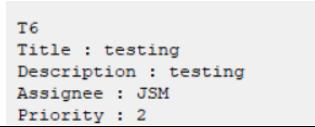
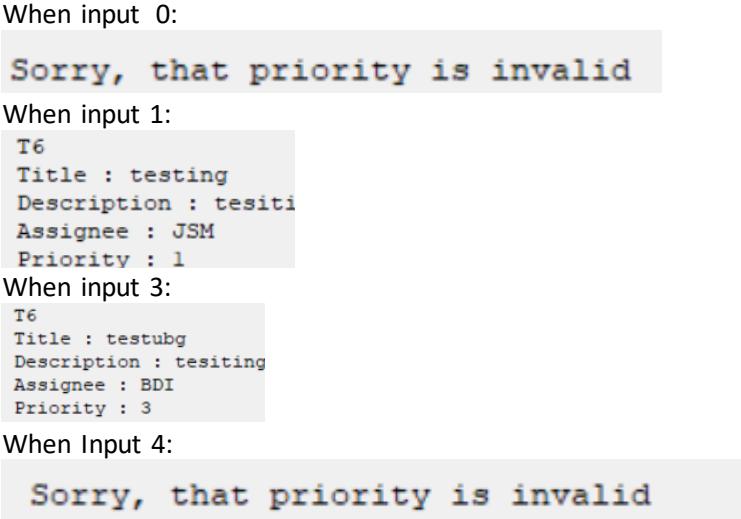


Date	What am I testing?	Test Type	Expected Result	Actual Result	How was it fixed?
19/04	Print_all function	Valid	Prints all the tasks in a nice way	<pre>T1: Title : Design HomepageT1: Description : Create a mockup of the homepageT1: Assignee : JSMT1: Priority : 3T1: Status : In ProgressT2: Title : Implement Login pageT2: Description : Create the Login page for the websiteT2: Assignee : JSMT2: Priority : 3T2: Status : BlockedT3: Title : Fix navigation menuT3: Description : Fix the navigation menu to be more user-friendlyT3: Assignee : NoneT3: Priority : 1T3: Status : Not StartedT4: Title : Implement payment processing for the websiteT4: Description : Implement payment processing for the websiteT4: Assignee : JLOT4: Priority : 2T4: Status : In ProgressT5: Title : Create an About Us pageT5: Description : Create a page with information about the companyT5: Assignee : BDIT5: Priority : 1T5: Status : Blocked</pre>	<p>Add a \n after ever iteration of a task</p> <pre>def print_all(self): output = '' for ID, task in self.tasks.items(): output += f'\n{ID}\n' for title, description in task.items(): output += f'{title} : {description}\n' easygui.msgbox(output)</pre>
19/04	Seeing if the sequential task IDs add up to the next one	Valid	To add "T6" to the task dictionary and display it using the print_all() function	<pre>Traceback (most recent call last): File "c:/Users/Aaron/Documents/GitHub\AS91896---Aaron-Ko\AS91896---Aaron-Ko.py", line 89, in <module> get.add_task() File "c:/Users/Aaron/Documents/GitHub\AS91896---Aaron-Ko\AS91896---Aaron-Ko.py", line 67, in add_task ID += id[1] TypeError: unsupported operand type(s) for +=: 'int' and 'str' PS C:\Users\Aaron\Documents\GitHub\AS91896---Aaron-Ko> python c:/Users/Aaron/Documents/GitHub/AS91896---Aaron-Ko.py Traceback (most recent call last): File "c:/Users/Aaron/Documents/GitHub\AS91896---Aaron-Ko\AS91896---Aaron-Ko.py", line 89, in <module> get.add_task() File "c:/Users/Aaron/Documents/GitHub\AS91896---Aaron-Ko\AS91896---Aaron-Ko.py", line 68, in add_task self.tasks[f'{ID}'][title] ~~~^~~~~~ KeyError: 'T6' PS C:\Users\Aaron\Documents\GitHub\AS91896---Aaron-Ko> [] ^ self.tasks[f'{ID}'][title]</pre> <p>Exception has occurred: KeyError 'T6'</p> <pre>File "c:/Users/Aaron/Documents/GitHub\AS91896---Aaron-Ko\AS91896---Aaron-Ko.py", line 70, in add_task self.tasks[f'{ID}'][title] ~~~^~~~~~ File "c:/Users/Aaron/Documents/GitHub\AS91896---Aaron-Ko\AS91896---Aaron-Ko.py", line 90, in <module> get.add_task() KeyError: 'T6'</pre>	<p>First error I had to change the slice operant to a integer:</p> <p style="background-color: #000; color: #fff; padding: 5px;">ID += int(id[1])</p> <p>Second error, I had to do:</p> <p style="background-color: #000; color: #fff; padding: 5px;">for id in self.tasks.keys(): list(id) ID += int(id[1]) self.tasks[f'{ID}'][title]</p> <p>Which added all the task numbers together to:</p> <p style="background-color: #000; color: #fff; padding: 5px;">for id in self.tasks.keys(): list(id) if int(id[1]) > ID: ID = int(id[1]) ID += 1</p> <p>Third error: Stupid error fixed with:</p> <p style="background-color: #000; color: #fff; padding: 5px;">self.tasks[f'{ID}'] = title</p> <p>Making it more efficient and concise by instead of making into a list just through list comprehension and slice operators like:</p> <p style="background-color: #000; color: #fff; padding: 5px;">ID = max(int(key[1]) for key in self.tasks.keys()) + 1</p>

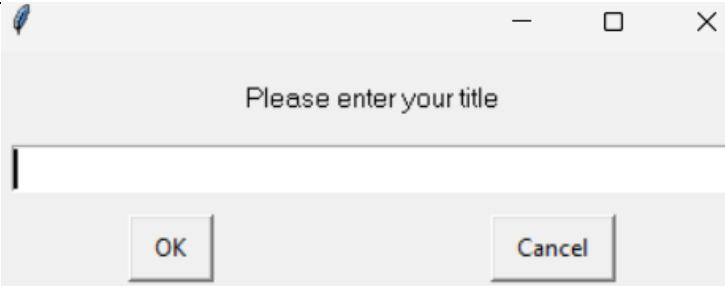
19/04	Seeing I can add a title to the task dictionary	Valid	Add a new section in the dictionary with the title	<pre>File "c:\Users\Aaron\Documents\GitHub\AS91896---Aaron-Ko\ASSN1\TaskManager.py", line 10, in <module> for attribute, value in task.items(): ^ AttributeError: 'str' object has no attribute 'items'</pre>	<p>Issue:</p> <pre>def add_task(self): output = '' title = easygui.enterbox('Please enter your title') ID = max(int(key[1]) for key in self.tasks.keys()) + 1 self.tasks[f'T{ID}'] = {f'title': title}</pre> <p>The problem Fixed by adding 'Title' separately:</p> <pre>def add_task(self): output = '' title = easygui.enterbox('Please enter the title of the task') ID = max(int(key[1]) for key in self.tasks.keys()) + 1 self.tasks[f'T{ID}'] = {f'title': title}</pre>
19/04	Seeing if the description goes into the task dictionary	Valid	Adds description	<pre>T6 Title : testing Description : testing</pre>	Works
19/04	Seeing if the Assignee goes into the dictionary	Valid	Adds assignee	<pre>T6 Title : testing Description : testing Assignee : JSM</pre>	Works
19/04	Seeing if the program can work around having a lowercase team member code and still work	Valid	Adds assignee	<pre>T6 Title : testing Description : testing Assignee : JSM</pre>	Works
19/04	Seeing if the program can work around having a wrong team member code and still work	Invalid	Says that code not accepted and repeats the add assignee window	<pre>Sorry, that code does not exist</pre>	Works

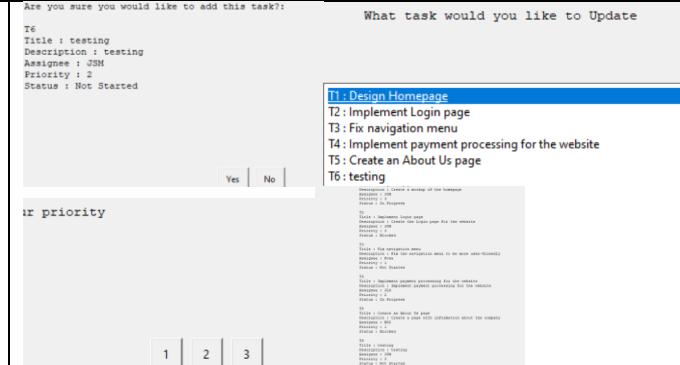
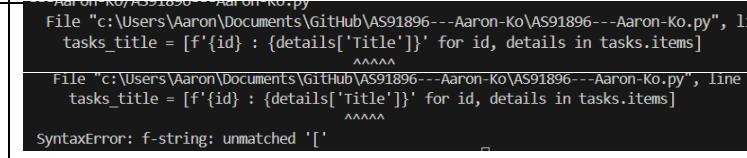
					
19/04	For the adding assignee, using choicebox instead of the enterbox because it eliminates any potential errors and allows the user the more easily select the right choices	Valid	Gives a choice box option with all the team member codes that the user can simply select and that would be added to the task dictionary right after		Works
19/04	For the adding priority, what happens if the user inputs a valid input	Valid	Should add the priority to the task dictionary		Just had to change priority to integer 
19/04	For adding priority, what would happen if I added any number and is not in the range of 1 – 3	Boundary	Should not allow any number that is not in between 1 and 3 to be added to task dictionary. Should, instead, repeat the question		Works due to:  <p>The while loop and the if statement</p>

19/04	For adding priority, what would happen if I added different invalid datatypes such as str or float.	Invalid	Should come up with 'sorry, that priority is invalid'	<p>When Input float:</p> <pre>File "c:\Users\Aaron\Documents\GitHub\AS91896---Aaron-Ko\AS91896---Aaron-Ko\tasks.py", line 10, in <module> priority = int(priority) ^^^^^^^^^^ ValueError: invalid literal for int() with base 10: '1.1'</pre> <p>When input string:</p> <pre>File "c:\Users\Aaron\Documents\GitHub\AS91896---Aaron-Ko\AS91896---Aaron-Ko\tasks.py", line 10, in <module> priority = int(priority) ^^^^^^^^^^ ValueError: invalid literal for int() with base 10: 'hello'</pre>	Solved by integrating a ValueError exception that will counter any wrong information also made the code more efficient by making if statement better:
19/04	For the adding priority, using buttonbox instead of the enterbox because it eliminates any potential errors and allows the user the more easily select the right choices, it looks cleaner, and it is way more efficient.	Valid	Should be able to select your priority rating which would be smoothly added the task dictionary	<p>Please choose your priority</p> <p>T6 Title : testing Description : testing Assignee : JSM Priority : 3</p>	Works
19/04	Whether the status button box window shows up and adds status to the task dictionary	Valid	the status button box window shows up and adds status to the task dictionary	<p>Please choose your Status</p> <p>T6 Title : testing Description : testing Assignee : BDI Priority : 2 Status : In Progress</p>	Works
19/04	Checking If the verification page looks organize	Valid	The page should look organized	<p>Are you sure you would like to add this task?:</p> <p>T6 Title : testing Description : testing Assignee : JSM Priority : 2 Status : Blocked</p>	Works
19/04	Checking if the verification page adds to the dictionary when pressed "yes"	Valid	Output adds to the task dictionary	<p>T6 Title : tesitng Description : testing Assignee : JSM Priority : 2 Status : Blocked</p>	Works

19/04	Checking if the add task function can go back to the main menu whenever you press the X button or press cancel or exit	Invalid	Should go back to the main page	<p>T6</p> <p>Title : None Description : None Assignee : None Priority : None Status : None</p> <p>Keeps on going to through the question instead of going to the main page</p>	Solved by adding <pre>if title is None: return</pre> <p>over the whole function:</p>
20/04	Checking if making 'status' a function will work like which all the usual user inputs:	Valid	Should work as the normal status block of code	<p>Please choose your Status</p> <p>Not Started Blocked In Progress</p> <p>Title : testing Description : testing Assignee : JSM Priority : 2 Status : Not Started</p>	Works. So I will make every time the add_tasks add something a function as to avoid repeated code in the update function
20/04	Checking if the ID and Task title will appear nicely on each button in the update function	Valid	Should display what I just said	<p>T1: Design Homepage T2: Implement Login page T3: Fix navigation menu T4: Implement payment processing for the website T5: Create an About Us page</p> <p>T1: Design Homepage T2: Implement Login page T3: Fix navigation menu T4: Implement payment processing for the website T5: Create an About Us page</p>	Works
20/04	Checking if the add task function still works while making every added aspect into a separate function in the class like	Valid	Should work just like before	<p>T6</p> <p>Title : testing Description : testing Assignee : JLO Priority : 2 Status : Not Started</p>	Mostly Working, However some Nonetype issues. Address in next testing

20/04	Testing a more efficient code: <pre>self.output[f'T{self.ID}'] = { 'Title': self.title(), 'Description': self.description(), 'Assignee': self.assignee(), 'Priority': self.priority(), 'Status': self.status() }</pre>	Valid	Should work just like before	<p>T6 Title : testing Description : testin Assignee : BDI Priority : 2 Status : Blocked</p> <p>T6 Title : None Description : None Assignee : None Priority : None Status : None</p>	NoneType issues. I would like this whole add_task function to be passed if the user cancels or 'x's at any point
20/04	Testing a if I can exit the pass all of add_tasks if a NoneType occurs: <pre>if not self.title(): return if not self.description(): return if not self.assignee(): return if not self.priority(): return if not self.status(): return</pre>	Invalid	Should exit the whole function when a NoneType occurs	<p>Please enter your title</p> <p>OK Cancel</p> <p>Goes straight to:</p> <p>T1 Title : Design Homepage Description : Create a mockup of the homepage Assignee : JSM Priority : 3 Status : In Progress</p> <p>T2 Title : Implement Login page Description : Create the Login page for the website Assignee : JSM Priority : 3 Status : Blocked</p> <p>T3 Title : Fix navigation menu Description : Fix the navigation menu to be more user-friendly Assignee : None Priority : 1 Status : Not Started</p> <p>T4 Title : Implement payment processing for the website Description : Implement payment processing for the website Assignee : BDI Priority : 2 Status : In Progress</p> <p>T5 Title : Create an About Us page Description : Create a page with information about the company Assignee : BDI Priority : 1 Status : Blocked</p>	Works
20/04	Testing if the task section to update variable works	Valid	Should say "what part of the task would you like the update" and correctly lists each option	<p>What part of the task would you like to update?</p> <p>Title Description Assignee Priority Status</p> <p>Cancel OK</p>	Works
20/04	Testing if the title() description()... etc functions are being called correctly into the update function	Valid	Should be able to change the updates the values in the task list except status	<p>Please enter your title</p> <p>OK Cancel</p>	The title didn't change because I didn't add in: <pre>self.tasks[task_id]['Title'] = title</pre>

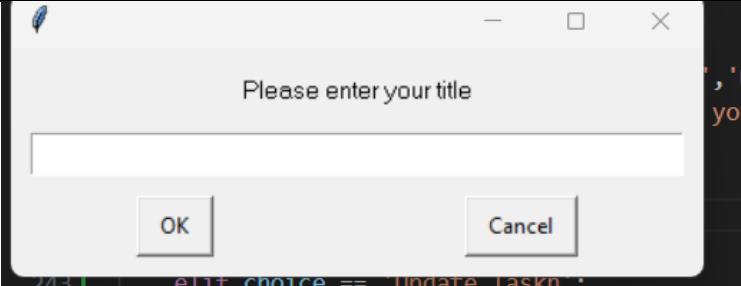
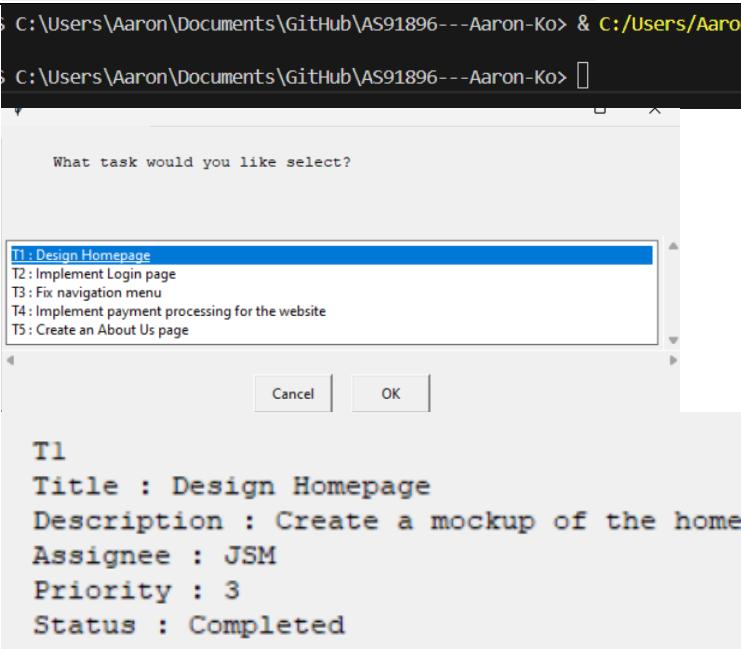
				Title : Implement Login page	
20/04	Testing if the generate report function works	Valid	Should Pop up window with the correct report	<pre>File "c:\Users\Aaron\Documents\GitHub\AS91896---Aaron-Ko\AS91896---Aaron-Ko.py", line 225, in <module> get.generate_report() File "c:\Users\Aaron\Documents\GitHub\AS91896---Aaron-Ko\AS91896---Aaron-Ko.py", line 207, in generate_report status_counts[task['status']] += 1 ~~~~~~ TypeError: tuple indices must be integers or slices, not str</pre>	<p>Failed, the issue was that I tried to use a for loop and items() function</p> <pre>for task in self.tasks.items(): # adding counter to correspond</pre> <p>And thought that was the values I was getting</p> <pre>for task in self.tasks.values(): # adding counter to correspond</pre> <pre>Completed Tasks: 0 In Progress Tasks: 2 Blocked Tasks: 2 Not Started Tasks: 1</pre>
20/04	Testing if task_to_update variable gets cut down to just T1 ... etc	Valid	Should display T1 in terminal	T1	<p>There is white space around the T1 so I just add strip to get rid of it:</p> <pre>task_id = task_to_update.split(':')[0].strip()</pre>
20/04	Checking if when task is completed status it also removes form the team member task	Valid	JSM should only have one task	<pre>Name : John Smith Email : John@techvision.com Tasks Assigned : ['T2']</pre>	<p>Ok, so there was a slight error but it was a spelling mistake of team member 😊</p> <pre># dictionary.get(key, default) if task_id in team_member.get: team_member[assignee_code] = task_id # Update the task status</pre>
20/04	Checking if at any point the update function has an error	Invalid	Should not be any terminal errors	<pre>get.update_task() File "c:\Users\Aaron\Documents\GitHub\AS91896---Aaron-Ko\AS91896---Aaron-Ko.py", line 207, in update_task task_id = task_to_update.split(':')[0].strip() ~~~~~~ AttributeError: 'NoneType' object has no attribute 'split' PC: C:\Users\Aaron\Documents\GitHub\AS91896---Aaron-Ko</pre>	<p>Fixed by adding:</p> <pre>if task_to_update == None: return task_section_to_update = easygui.choicebox("What section do you want to update?", "Task Manager", ["Title", "Description", "Assignee", "Priority", "Status"]) if task_section_to_update == None: return</pre>
21/04	Checking if the code from yesterday's testing has any errors including any valid or invalid inputs	Valid, Invalid	The program should run smoothly up to add_task and update_task, print_all, and generate_report		<p>Issue:</p> <pre># with the function 'x' or 'cancel' is pressed if not self.title(): return if not self.description(): return if not self.assignee(): return if not self.priority(): return if not self.status(): return # calling each function inside of output self.output.append('{' + self.title() + ':' + self.description() + ',' + 'Assignee': self.assignee(), + 'Priority': self.priority(), + 'Status': self.status() + '}' + ',')</pre>

				Appeared twice even tho I only wanted it to be once.	I was accidentally called the functions twice when checking for None Errors and actually adding them to the dictionary Solution: <pre># adding returned values into variables title = self.title() description = self.description() assignee = self.assignee() priority = self.priority() status = self.status() # Check if any field is None (indicating user canceled) # exits the function if 'x' or cancel is pressed at anytime if None in (title, description, assignee, priority, status): return # add the task to output self.output[f'{self.ID}'] = ['title': title, 'Description': description, 'Assignee': assignee, 'Priority': priority, 'Status': status]</pre> <p>I had to make the returned function values into objects so that I don't have to call them twice.</p>
21/04	Testing if I add a new task, its values appear in every other part of the program so far.	Valid	Should be appearing the print_all page, and the update page		Works
21/04	Checking if the program accepts the button box from the first window of search()	Valid	Should say 'This is the tasks page' after pressing tasks		Works
21/04	Checking if ID and title of the task successfully show in the choicebox	Valid	Should display ID and task title as choicebox	 <pre>Aaron-Ko\AS91896 -- Aaron-Ko\AS91896 -- Aaron-Ko.py File "c:\Users\Aaron\Documents\GitHub\AS91896 -- Aaron-Ko\AS91896 -- Aaron-Ko.py", line tasks_title = [f'{id} : {details['Title']}' for id, details in tasks.items()] ^^^^^^ File "c:\Users\Aaron\Documents\GitHub\AS91896 -- Aaron-Ko\AS91896 -- Aaron-Ko.py", line 205 tasks_title = [f'{id} : {details['title']}' for id, details in tasks.items()] ^^^^^^ SyntaxError: f-string: unmatched '['</pre> <pre>tasks_title = [f'{id} : {details['title']}' for id, details in tasks.items()]</pre>	Failed, didn't put the brackets after items and change from " to ' '.

21/04	Testing if ID_title function works in update_task function <pre>if self.ID_title()[0] == None:</pre>	Invalid	Should work as normal	<pre>Traceback (most recent call last): File "c:/Users/Aaron/Documents/GitHub/AS91896---Aaron-Ko/AS91896---Aaron-Ko.py", line 228, in <module> get_update_task() File "c:/Users/Aaron/Documents/GitHub/AS91896---Aaron-Ko/AS91896---Aaron-Ko.py", line 154, in update_task if self.ID_title()[0] == None: ~~~~~ File "c:/Users/Aaron/Documents/GitHub/AS91896---Aaron-Ko/AS91896---Aaron-Ko.py", line 149, in ID_title task_id = task_selected.split(':')[0].strip() ~~~~~ AttributeError: 'NoneType' object has no attribute 'split'</pre>	<p>I have to add</p> <pre>if self.ID_title()[0] == None: return</pre> <p>To the ID_title Function like:</p> <pre>if task_selected == None: return # get the task ID from task_selected # split at ':' get the first value [0] in the list task_id = task_selected.split(':')[0].strip() return task_id</pre>
21/04	Testing if the Update function still works after efficiency changes	Valid, Invalid	The whole function should work and update the dictionarys and cancel should stop the whole function	<p>T1 : Design Homepage T2 : Implement Login page T3 : Fix navigation menu T4 : Implement payment processing for the website T5 : Create an About Us page</p> <p>- The ID_title() function is called correctly</p> <pre>T1 Title : testing Description : Create a mo Assignee : JSM Priority : 3 Status : In Progress</pre> <p>- task dictionary is edited</p> <pre>JSM Name : John Smith Email : John@techvision.com Tasks Assigned : ['T2']</pre> <p>- team member dictionary is edited</p>	Works
21/04	Testing when user chooses a task to search all the information printed nicely	Valid	Should print task information when task is clicked	<p>T1 : Design Homepage T2 : Implement Login page T3 : Fix navigation menu T4 : Implement payment proc T5 : Create an About Us page</p> <p>to</p> <pre>T1: {'Title': 'Design Homepage', 'Description': 'Create a mockup of the homepage', 'Assignee': 'JSM', 'Priority': '3', 'Status': 'In Progress'}</pre>	<p>Kinda, not very nicely though. Fixed by using list comprehension.</p> <pre>Title : Design Homepage Description : Create a mockup of the homepage Assignee : JSM Priority : 3 Status : In Progress</pre> <pre>email=group['-join'](' ', [value for id, details in self.tasks.items() for key,value in details.items() if id == task_id])</pre>
21/04	Testing if when the user chooses 'team members' instead of 'tasks'	Valid	Should open team member selection screen	<p>Please select their code</p> <pre>JSM JLO BDI</pre> <p>Cancel OK</p>	Works

21/04	Testing what happens if I choose Cancel from last test	Invalid	Should exit completely(I do not have a main menu yet as I am just working with functions())		Works
21/04	Testing what happens when I click on a team member name in search()	Valid	Should display team member details	<p>Name : John Smith Email : John@techvision.com Tasks Assigned : ['T1', 'T2']</p>	Works
21/04	Testing if the buttons in the main menu corresponds to the correct function in the class	Valid	The whole Program should work as intended	 <pre> File "c:\Users\Aaron\Documents\GitHub\AS91896---Aaron-Ko\AS91896---Aaron-Ko.py", line 235, in <module> get = task.management() ^^^^^^^^^^^^^^ TypeError: task.management.__init__() missing 1 required positional argument: 'tasks' PS C:\Users\Aaron\Documents\GitHub\AS91896---Aaron-Ko> File "c:\Users\Aaron\Documents\GitHub\AS91896---Aaron-Ko\AS91896---Aaron-Ko.py", line 242, in <module> get.add_task() File "c:\Users\Aaron\Documents\GitHub\AS91896---Aaron-Ko\AS91896---Aaron-Ko.py", line 68, in add_task ID = max(int(key[1]) for key in tasks.keys()) + 1 ^ boundlocalError: cannot access local variable 'tasks' where it is not associated with a value </pre>	<p>First Issue:</p> <pre> def __init__(self, tasks): pass </pre> <p>Forgot to delete tasks form__init__()</p> <p>Second Issue:</p> <pre> ID = max(int(key[1]) for key in tasks.keys()) + 1 </pre> <p>I need to initialize self.tasks in __init__() so I can access it over the class</p>

21/04	Testing what happens if I press 'All information'	Valid	All information of both task and team member should be printed out	<pre>T1 Title : Design Homepage Description : Create a mockup of the homepage Assignee : JSM Priority : 3 Status : In Progress T2 Title : Implement Login page Description : Create the Login page for the website Assignee : JSM Priority : 3 Status : Blocked T3 Title : Fix navigation menu Description : Fix the navigation menu to be more user-friendly Assignee : None Priority : 1 Status : Not Started T4 Title : Implement payment processing for the website Description : Implement payment processing for the website Assignee : JLO Priority : 2 Status : In Progress T5 Title : Create an About Us page Description : Create a page with information about the company Assignee : BDI Priority : 1 Status : Blocked</pre> <hr/> <p>Team Members</p> <p>JSM Name : John Smith Email : John@techvision.com Tasks Assigned : ['T1', 'T2']</p> <p>JLO Name : Jane Love Email : Jane@techvision.com Tasks Assigned : ['T4']</p> <p>BDI Name : Bob Dillon Email : Bob@techvision.com Tasks Assigned : ['T5']</p>	Works
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21/04	Testing what happens if I press 'add task'	Valid	Should proceed with the add_task() function	 <pre> T6 Title : testuing Description : testing Assignee : JSM Priority : 1 Status : Not Started </pre>	Works
21/04	Testing what happens if I press 'Update Task'	Valid	Should Proceed with the update_task() function	 <pre> T1 Title : Design Homepage Description : Create a mockup of the homepage Assignee : JSM Priority : 3 Status : Completed </pre>	<p>Nothing happened?? Bruh.</p> <p>Taskn':</p> <p>Ok now its working</p>

				<p>JSM</p> <p>Name : John Smith</p> <p>Email : John@techvision.com</p> <p>Tasks Assigned : ['T2']</p>	
21/04	Testing what happens if I press 'Search'	Valid	Should proceed with search() function	<p>What would you like search for?</p> <p style="text-align: right;"><input type="button" value="Task"/> <input type="button" value="Team member"/></p> <hr/> <p>Title : Implement payment processing for the website Description : Implement payment processing for the website Assignee : JLO Priority : 2 Status : In Progress</p>	Works
21/04	Testing what happens if I press 'Report'	Valid	Should proceed with report () function	 <p>Completed Tasks: 1 In Progress Tasks: 1 Blocked Tasks: 2 Not Started Tasks: 1</p>	Works
21/04	Testing what happens if I press 'Exit'	Valid	Should break the while loops therefore exiting the program		Works

21/04	Testing for ANY NONE TYPE inputs	Invalid	There should be NO errors all cancels will go to the right pages	<pre> status : Blocked T6 Title : testomg Description : testomg Assignee : JSM Priority : 2 Status : In Progress T7 Title : testing Description : testomg Assignee : JSM Priority : 3 Status : Completed T8 Title : tsetsq Description : dhsdf Assignee : JLO Priority : 1 Status : Blocked JLO Name : Jane Love Email : Jane@techvision.com Tasks Assigned : [] Completed Tasks: 3 In Progress Tasks: 1 Blocked Tasks: 3 Not Started Tasks: 1 </pre>	Everything seems to be working perfectly. Minor spelling mistakes but those are unmarked so whatever
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Test Types:

Valid: Is a test which the code accepts and should move on as expected. E.g a name input

Invalid: Is a test which the code shouldn't accept and could crash the code if there is unacceptable input validation

Boundary: A test on the limit of either invalid or valid tests. E.g number inputs where the min value is 1 and max value is 5

NOTE:

- I have included boundary testing in my testing but NOT in my actual code because I have identified that using a choice or button box is much more effective than a search function in terms of usability and efficiency.

- The code that is often shown here may NOT be in the actual code. This is because of refinement or because I have changed a previous code because of something I have learnt later that could also make, that said previous code, better such as for loops and list comprehension and making blocks of code into functions than repeating them.
- My testing may not always be based on user inputs but also as a tester for perhaps lines or blocks of code.