

VaultOfCodes

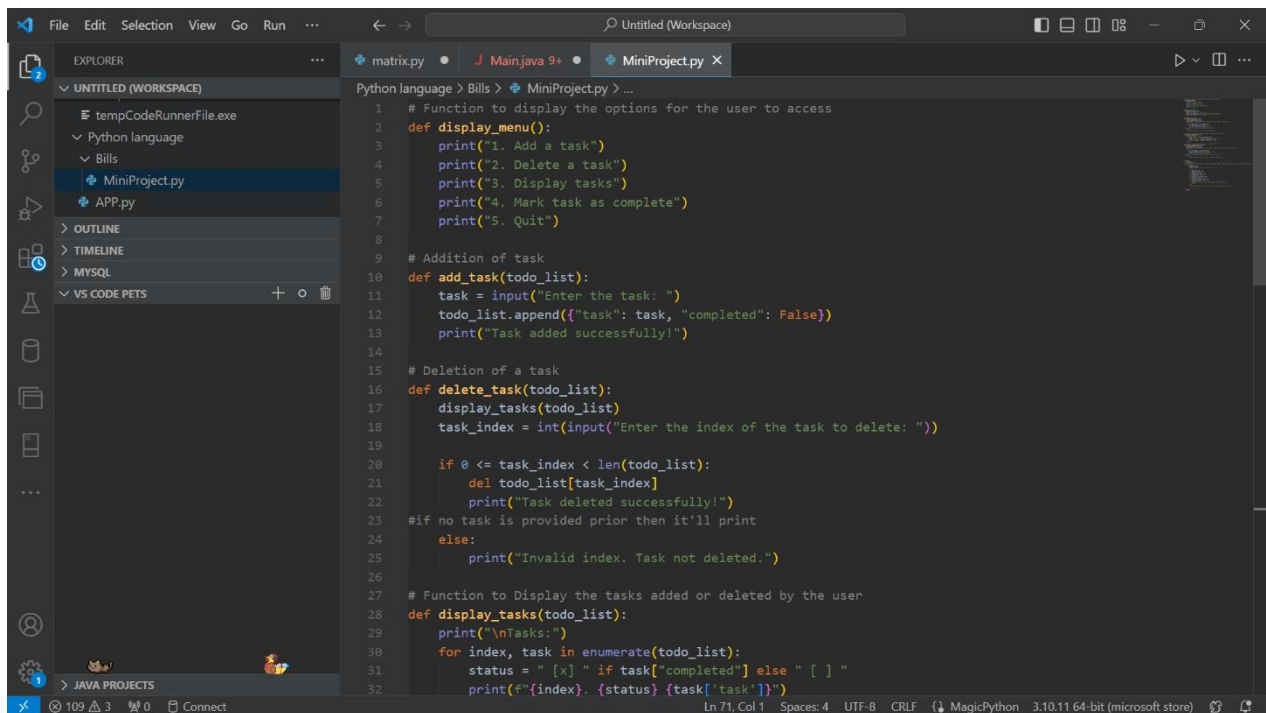
Mini Project

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Here, I have created a basic function-based python project that showcases the different functionalities of the project that can be easily accessed to the user.

Comments have also been added to the same for better readability.

SYNTAX:



```
1 # Function to display the options for the user to access
2 def display_menu():
3     print("1. Add a task")
4     print("2. Delete a task")
5     print("3. Display tasks")
6     print("4. Mark task as complete")
7     print("5. Quit")
8
9 # Addition of task
10 def add_task(todo_list):
11     task = input("Enter the task: ")
12     todo_list.append({"task": task, "completed": False})
13     print("Task added successfully!")
14
15 # Deletion of a task
16 def delete_task(todo_list):
17     display_tasks(todo_list)
18     task_index = int(input("Enter the index of the task to delete: "))
19
20     if 0 <= task_index < len(todo_list):
21         del todo_list[task_index]
22         print("Task deleted successfully!")
23     #if no task is provided prior then it'll print
24     else:
25         print("Invalid index. Task not deleted.")
26
27 # Function to Display the tasks added or deleted by the user
28 def display_tasks(todo_list):
29     print("\nTasks:")
30     for index, task in enumerate(todo_list):
31         status = " [x] " if task["completed"] else " [ ] "
32         print(f"{index}. {status} {task['task']}")
```

```
30 for index, task in enumerate(todo_list):
31     status = " [x] " if task["completed"] else " [ ] "
32     print(f"{index}. {status} {task['task']}")
33     print()
34
35 # Function to return the index of a particular task
36 def mark_as_complete(todo_list):
37     display_tasks(todo_list)
38     task_index = int(input("Enter the index of the task to mark as complete: "))
39
40     if 0 <= task_index < len(todo_list):
41         todo_list[task_index]["completed"] = True
42         print("Task marked as complete!")
43     #If there isn't such of a task, error will be printed
44     else:
45         print("Invalid index. Task not marked as complete.")
46
47
48 def main():
49     todo_list = []
50     #If the request from the user is within the range, then it will perform as per the request that can be
51     while True:
52         display_menu()
53         choice = input("Enter your choice (1-5): ")
54
55         if choice == "1":
56             add_task(todo_list)
57         elif choice == "2":
58             delete_task(todo_list)
59         elif choice == "3":
60             display_tasks(todo_list)
61         elif choice == "4":
```

```
46     print("Invalid index. Task not marked as complete.")
47
48 def main():
49     todo_list = []
50     #If the request from the user is within the range, then it will perform as per the request that can be
51     while True:
52         display_menu()
53         choice = input("Enter your choice (1-5): ")
54
55         if choice == "1":
56             add_task(todo_list)
57         elif choice == "2":
58             delete_task(todo_list)
59         elif choice == "3":
60             display_tasks(todo_list)
61         elif choice == "4":
62             mark_as_complete(todo_list)
63         elif choice == "5":
64             print("Exiting the to-do list application. Goodbye!")
65             break
66         else:
67             print("Invalid choice. Please enter a number between 1 and 5.")
68
69 if __name__ == "__main__":
70     main()
71
```

OUTPUT:

```
File Edit Selection View Go Run ...  
Untitled (Workspace)  
EXPLORER  
tempCodeRunnerFile.exe  
Python language  
Bills  
MiniProject.py  
APP.py  
OUTLINE  
TIMELINE  
MYSQL  
VS CODE PETS  
JAVA PROJECTS  
109 3 0 Connect  
Ln 71, Col 1 Spaces: 4 UTF-8 CRLF MagicPython 3.10.11 64-bit (microsoft store)
```

Task added successfully!

1. Add a task
2. Delete a task
3. Display tasks
4. Mark task as complete
5. Quit

Enter your choice (1-5): 1

Enter the task: Trial is being added up

Task added successfully!

1. Add a task
2. Delete a task
3. Display tasks
4. Mark task as complete
5. Quit

Enter your choice (1-5): 2

Tasks:

0. [] This is a demo run
1. [] Trial is being added up

Enter the index of the task to delete: 0

Task deleted successfully!

1. Add a task
2. Delete a task
3. Display tasks
4. Mark task as complete
5. Quit

Enter your choice (1-5): 3

Tasks:

0. [] Trial is being added up

1. Add a task
2. Delete a task
3. Display tasks
4. Mark task as complete
5. Quit

Enter your choice (1-5):

```
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JAVA PROJECTS  
109 3 0 Connect  
Ln 71, Col 1 Spaces: 4 UTF-8 CRLF MagicPython 3.10.11 64-bit (microsoft store)
```

4. Mark task as complete
5. Quit

Enter your choice (1-5): 2

Tasks:

0. [] This is a demo run
1. [] Trial is being added up

Enter the index of the task to delete: 0

Task deleted successfully!

1. Add a task
2. Delete a task
3. Display tasks
4. Mark task as complete
5. Quit

Enter your choice (1-5): 3

Tasks:

0. [] Trial is being added up

1. Add a task
2. Delete a task
3. Display tasks
4. Mark task as complete
5. Quit

Enter your choice (1-5): 4

Tasks:

0. [] Trial is being added up

Enter the index of the task to mark as complete: 0

Task marked as complete!

1. Add a task
2. Delete a task
3. Display tasks
4. Mark task as complete
5. Quit

Enter your choice (1-5):