VaultofCodes – Mini Project

Simple To Do List Application using Python

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**Python Program: ToDo\_List.py**

from colorama import Fore as fore

class ToDoList:

    def \_\_init\_\_(self) -> None:

        self.tasks = []

        self.loop = True

    def addtasks(self):

        task = input("Enter the task: ")

        if task != "":

            self.tasks.append([task, "progress"])

            print(f"{fore.GREEN}---Task added successfully---")

        else:

            print(f"{fore.RED}Empty task name is ignored{fore.WHITE}")

    def viewtasks(self, category="All"):

        f = 0

        if category == "All":

            if len(self.tasks) > 0:

                f = 1

            for i in range(len(self.tasks)):

                print(f"{fore.YELLOW}[{i + 1}] => {self.tasks[i][0]} => {self.tasks[i][1]}{fore.WHITE}")

        else:

            for i in range(len(self.tasks)):

                if self.tasks[i][1] == category:

                    print(f"{fore.YELLOW}[{i + 1}] => {self.tasks[i][0]}{fore.WHITE}")

                    f = 1

        if f == 0:

            print(f"{fore.RED}Nothing to display")

        return f

    def deletetask(self):

        if len(self.tasks) > 0:

            self.viewtasks()

            ind = int(input("Enter the index of the task: ")) - 1

            if len(self.tasks) < ind or ind < 0:

                print(f"{fore.RED}The given index is out of range.")

                return

            else:

                self.tasks.pop(ind)

                print(f"{fore.GREEN}---Task deleted successfully---")

        else:

            print(f"{fore.RED}The list is empty. Nothing to delete.")

            return

    def markascomplete(self):

        if len(self.tasks) > 0:

            f = self.viewtasks("progress")

            if f:

                ind = int(input("Enter the index of the task: ")) - 1

                if len(self.tasks) < ind or ind < 0:

                    print(f"{fore.RED}The given index is out of range.")

                    return

                else:

                    self.tasks[ind][1] = "completed"

                    print(f"{fore.GREEN}---Task marked as completed successfully---")

        else:

            print(f"{fore.RED}The list is empty. Nothing to update.")

            return

    def menu(self):

        print(f"{fore.BLUE}-----Menu-----")

        print(f"""{fore.BLUE}

[1] Add a Task

[2] Delete a Task

[3] Display all Tasks

[4] Display Tasks in Progress

[5] Display Tasks that are Completed

[6] Mark as Complete a Task

[7] Exit{fore.WHITE}""")

        ch = int(input("Enter your choice: "))

        if ch == 1:

            self.addtasks()

        elif ch == 2:

            self.deletetask()

        elif ch == 3:

            self.viewtasks()

        elif ch == 4:

            self.viewtasks("progress")

        elif ch == 5:

            self.viewtasks("completed")

        elif ch == 6:

            self.markascomplete()

        elif ch == 7:

            print(f"{fore.GREEN}Closing...{fore.WHITE}")

            self.loop = False

        else:

            print("The choice is not valid.")

obj = ToDoList()

while(obj.loop):

    obj.menu()

**Output:**

E:\VaultofCodes\_Internship\Mini\_Project> python -u "e:\VaultofCodes\_Internship\Mini\_Project\ToDo\_List.py"

-----Menu-----

[1] Add a Task

[2] Delete a Task

[3] Display all Tasks

[4] Display Tasks in Progress

[5] Display Tasks that are Completed

[6] Mark as Complete a Task

[7] Exit

Enter your choice: 1

Enter the task: Go to market

---Task added successfully---

-----Menu-----

[1] Add a Task

[2] Delete a Task

[3] Display all Tasks

[4] Display Tasks in Progress

[5] Display Tasks that are Completed

[6] Mark as Complete a Task

[7] Exit

Enter your choice: 1

Enter the task: Buy vegetables

---Task added successfully---

-----Menu-----

[1] Add a Task

[2] Delete a Task

[3] Display all Tasks

[4] Display Tasks in Progress

[5] Display Tasks that are Completed

[6] Mark as Complete a Task

[7] Exit

Enter your choice: 3

[1] => Go to market => progress

[2] => Buy vegetables => progress

-----Menu-----

[1] Add a Task

[2] Delete a Task

[3] Display all Tasks

[4] Display Tasks in Progress

[5] Display Tasks that are Completed

[6] Mark as Complete a Task

[7] Exit

Enter your choice: 6

[1] => Go to market

[2] => Buy vegetables

Enter the index of the task: 1

---Task marked as completed successfully---

-----Menu-----

[1] Add a Task

[2] Delete a Task

[3] Display all Tasks

[4] Display Tasks in Progress

[5] Display Tasks that are Completed

[6] Mark as Complete a Task

[7] Exit

Enter your choice: 3

[1] => Go to market => completed

[2] => Buy vegetables => progress

-----Menu-----

[1] Add a Task

[2] Delete a Task

[3] Display all Tasks

[4] Display Tasks in Progress

[5] Display Tasks that are Completed

[6] Mark as Complete a Task

[7] Exit

Enter your choice: 4

[2] => Buy vegetables

-----Menu-----

[1] Add a Task

[2] Delete a Task

[3] Display all Tasks

[4] Display Tasks in Progress

[5] Display Tasks that are Completed

[6] Mark as Complete a Task

[7] Exit

Enter your choice: 5

[1] => Go to market

-----Menu-----

[1] Add a Task

[2] Delete a Task

[3] Display all Tasks

[4] Display Tasks in Progress

[5] Display Tasks that are Completed

[6] Mark as Complete a Task

[7] Exit

Enter your choice: 2

[1] => Go to market => completed

[2] => Buy vegetables => progress

Enter the index of the task: 1

---Task deleted successfully---

-----Menu-----

[1] Add a Task

[2] Delete a Task

[3] Display all Tasks

[4] Display Tasks in Progress

[5] Display Tasks that are Completed

[6] Mark as Complete a Task

[7] Exit

Enter your choice: 7

Closing...

Github link: <https://github.com/sudarsansathishkumar/VaultofCodes_Python_Intern_MiniProject>