Task 6: Build a Basic To-Do List

Application

DESCRIPTION:

- This is the description of Task-6 of my python internship at Happieloop.
- Here, the task is to **perform different operations on a**List.
- I have created a file **task6.py** and developed python code according to the requirements to implement the operations.
- The purpose of the program that I have developed is to perform the following operations on a List.
 - i)Adding items
 - ii)Viewing items
 - iii)Removing items
- I have developed 3 functions in my code. They are display List, adding item, removing item.
- In the function display_List: If there are any items in List then the items will be displayed in the console window or else it will display No items in the list.
- The **adding_items** function implements the adding of elements to the list.
- The **removing_items** function: If the given index contains an element then the corresponding element will be removed from the List or else if there is no element

- present at that index or if the List is empty then it will display **No items to remove.**
- If the given index is not a valid index it will show invalid index.
- The code also handles errors and exceptional cases.
- The **List manipulation functions** that I have used in my code are **append()** and **pop()** functions.
- The **append()** function adds elements into the List.
- The **pop()** function removes the element of a particular index in the given List.
- Below will be the implementation and example inputs to determine the output by performing different operations.

CODE:

```
List = []
def display_list():
    if List:
        print("Items:")
        for index, item in enumerate(List, start=1):
            print(f"{index}. {item}")
        else:
            print("No items yet.")

def add_item():
    item = input("Enter the item: ")
    List.append(item)
```

```
print(f"{item} added to the list.")
def remove_item():
  display list()
  if List:
     try:
       index = int(input("Enter the index of the item to
remove: "))
       if 0 \le index \le len(List):
          removed item = List.pop(index)
          print(f"Removed: {removed_item}")
       else:
          print("Invalid index.")
     except ValueError:
       print("Invalid input. Please enter a valid integer.")
  else:
     print("No items to remove.")
while True:
  print("\nMenu:")
  print("1. Add an item")
  print("2. View the list")
  print("3. Remove an item")
  print("4. Quit")
```

```
choice = input("Enter your choice: ")

if choice == '1':
   add_item()

elif choice == '2':
   display_list()

elif choice == '3':
   remove_item()

elif choice == '4':
   break

else:
   print("Invalid choice. Please select a valid option.")
```

• Now let me show some of the sample inputs and corresponding outputs for the above code.

OUTPUTS:

Menu:

- 1. Add an item
- 2. View the list
- 3. Remove an item
- 4. Quit

Enter your choice: 1

Enter the item: 28

28 added to the list.

Menu:

- 1. Add an item
- 2. View the list
- 3. Remove an item
- 4. Quit

Enter your choice: 1

Enter the item: 45

45 added to the list.

Menu:

- 1. Add an item
- 2. View the list
- 3. Remove an item
- 4. Quit

Enter your choice: 1

Enter the item: 79

79 added to the list.

1. Add an item
2. View the list
3. Remove an item
4. Quit
Enter your choice: 2
Items:
1. 28
2. 45
3. 79
Menu:
1. Add an item
2. View the list
3. Remove an item
4. Quit
Enter your choice: 3
Items:
1. 28
2. 45
3. 79
Enter the index of the item to remove: 1

Menu:

Removed: 45

Menu:

- 1. Add an item
- 2. View the list
- 3. Remove an item
- 4. Quit

Enter your choice: 2

Items:

- 1. 28
- 2. 79

Menu:

- 1. Add an item
- 2. View the list
- 3. Remove an item
- 4. Quit

Enter your choice: 4

PS C:\Users\gsnlm\OneDrive\Desktop\mouni>