```
def display(todo_list):
    if not todo_list:
        print("list is empty.")
        return
    print("Your list:")
    for index, task in enumerate(todo_list, start=1):
        print('{}{}'.format('index','task') )
def add(todo_list, task):
    todo list.append(task)
    print('{} has been added to your list.'.format('task'))
def remove(todo_list, task_index):
    if not todo_list:
        print("Your to-do list is empty.")
        return
    if task_index < 1 or task_index > len(todo_list):
        print(f"Invalid task index: {task index}")
        return
    task = todo_list.pop(task_index - 1)
    print(' has been removed from your to-do list.'.format('task'))
def main():
    todo_list = []
    while True:
        print("\nOptions:")
        print("1. Display List")
        print("2. Add ")
        print("3. Remove ")
        print("4. Quit")
        choice = input("Enter your choice (1/2/3/4): ")
        if choice == "1":
            display(todo_list)
        elif choice == "2":
            task = input("Enter the task to add: ")
            add(todo_list, task)
        elif choice == "3":
            task index = int(input("Enter the task index to remove: "))
            remove(todo list, task index)
        elif choice == "4":
            print("Exit the program.")
            break
        else:
            print("Invalid choice. Please enter a number between 1 and 4.")
if __name__ == "__main__":
    main()
```

### Options:

- 1. Display List
- 2. Add
- 3. Remove
- 4. Quit Enter your choice (1/2/3/4): 1 list is empty.

### Options:

- 1. Display List
- 2. Add
- 3. Remove
- 4. Quit Enter your choice (1/2/3/4): 2

Enter the task to add: 156

task has been added to your list.

### Options:

- 1. Display List
- 2. Add
- 3. Remove
- 4. Quit Enter your choice (1/2/3/4): 3 Enter the task index to remove: 69

Invalid task index: 4

## Options:

- 1. Display List
- 2. Add
- 3. Remove
- 4. Quit Enter your choice (1/2/3/4): 4

Exit the program.

## **Question:**

Write a program to count word frequencies in a given text. Mini Project: Develop a basic to-do list program using functions and data structures add features like adding tasks in the to-do list, display the tasks and quitting the loop

## **Solution:**

```
Code:
def display(todo list):
  if not todo list:
   print("list is empty.")
   return
 print("Your list:")
 for index, task in enumerate(todo list, start=1):
   print('{}{}'.format('index','task') )
def add(todo list, task):
 todo list.append(task)
  print('{} has been added to your list.'.format('task'))
def remove(todo list, task index):
 if not todo list:
   print("Your to-do list is empty.")
    return
 if task index < 1 or task index > len(todo list):
   print(f"Invalid task index: {task index}")
   return
 task = todo \ list.pop(task \ index - 1)
 print(' has been removed from your to-do list.'.format('task'))
def main():
 todo list = []
  while True:
   print("\nOptions:")
   print("1. Display List")
   print("2. Add ")
   print("3. Remove ")
   print("4. Quit")
    choice = input("Enter your choice (1/2/3/4):")
   if choice == "1":
     display(todo list)
```

```
elif choice == "2":
     task = input("Enter the task to add: ")
     add(todo list, task)
  elif choice == "3":
     task index = int(input("Enter the task index to remove: "))
     remove(todo list, task index)
  elif choice == "4":
     print("Exit the program.")
     break
 else:
     print("Invalid choice. Please enter a number between 1 and 4.")
if name == " main ":
  main()
Output:
Options:
          1. Display List
          2. Add
          3. Remove
          4. Quit Enter your choice (1/2/3/4): 1
          list is empty.
         Options:
         1. Display List
         2. Add
         3. Remove
         4. Quit Enter your choice (1/2/3/4): 2
         Enter the task to add: 156
         task has been added to your list.
         Options:
         1. Display List
         2. Add
         3. Remove
         4. Quit Enter your choice (1/2/3/4): 3
         Enter the task index to remove: 69
         Invalid task index: 4
```

# Options:

- 1. Display List 2. Add
- 3. Remove
- 4. Quit Enter your choice (1/2/3/4): 4

Exit the program