File Manager

Description:

Create a file manager application that allows users to perform various operations on files and directories, such as creating, deleting, copying, moving, searching, and editing files.

Features to Implement:

File Operations:

Create a new file.
Delete an existing file.
Copy a file from one location to another.
Rename the text file.
Move a file from one location to another.
Search for files by name or extension within a directory.
Edit the contents of a text file.

Directory Operations:

Create a new directory.
Delete an existing directory.
List the contents of a directory.
Rename the directory.

Exception Handling:

Handle exceptions gracefully, such as file not found, permission denied, etc.

Object Oriented Programming:

Define classes for files and directories to encapsulate their properties and behaviors.
Implement inheritance and polymorphism where applicable.

Multithreading:

Implement multithreading to perform file operations concurrently, improving performance, especially for large file operations like copying or moving.

Iterator and Generator:

Use iterators or generators to iterate over the contents of directories, allowing for efficient processing of large directory structures.

Modules:

- **os module:**

The os module in Python provides a portable way of using operating system dependent functionality. It offers a wide range of functions for interacting with the operating system, such as managing files and directories, working with processes, and accessing environment variables.

Here are some common functions and attributes in the os module:

File and Directory Operations:

os.getcwd(): Get the current working directory.

os.chdir(path): Change the current working directory to the given path.

os.listdir(path='.'): List the contents of a directory.

os.mkdir(path): Create a directory.

os.makedirs(path): Recursively create directories.

os.remove(path): Remove a file.

os.rename(src, dst): Rename a file or directory.

os.path.exists(path): Check if a path exists.

os.path.isfile(path): Check if a path is a file.

os.path.isdir(path): Check if a path is a directory.

os.path.join(path1, path2, ...): Join one or more path components.

- **Shutil module**:

The shutil module in Python provides a higher-level interface for file operations that are more abstracted and easier to use compared to the lower-level file operations provided by the os module. It offers functions for copying files and directories, removing directories, and archiving operations.
Here are some common functionalities provided by the shutil module:

shutil.copy(src, dst): Copies the file at the path src to the location dst.
shutil.move(src, dst): Moves the file or directory from src to dst.
shutil.rmtree(path): Deletes the directory tree rooted at path.

- **Threading module**:

The threading module in python provides a way to run multiple threads simultaneously within a single application. Threads are lighter-weight than processes , making them suitable for tasks easily.

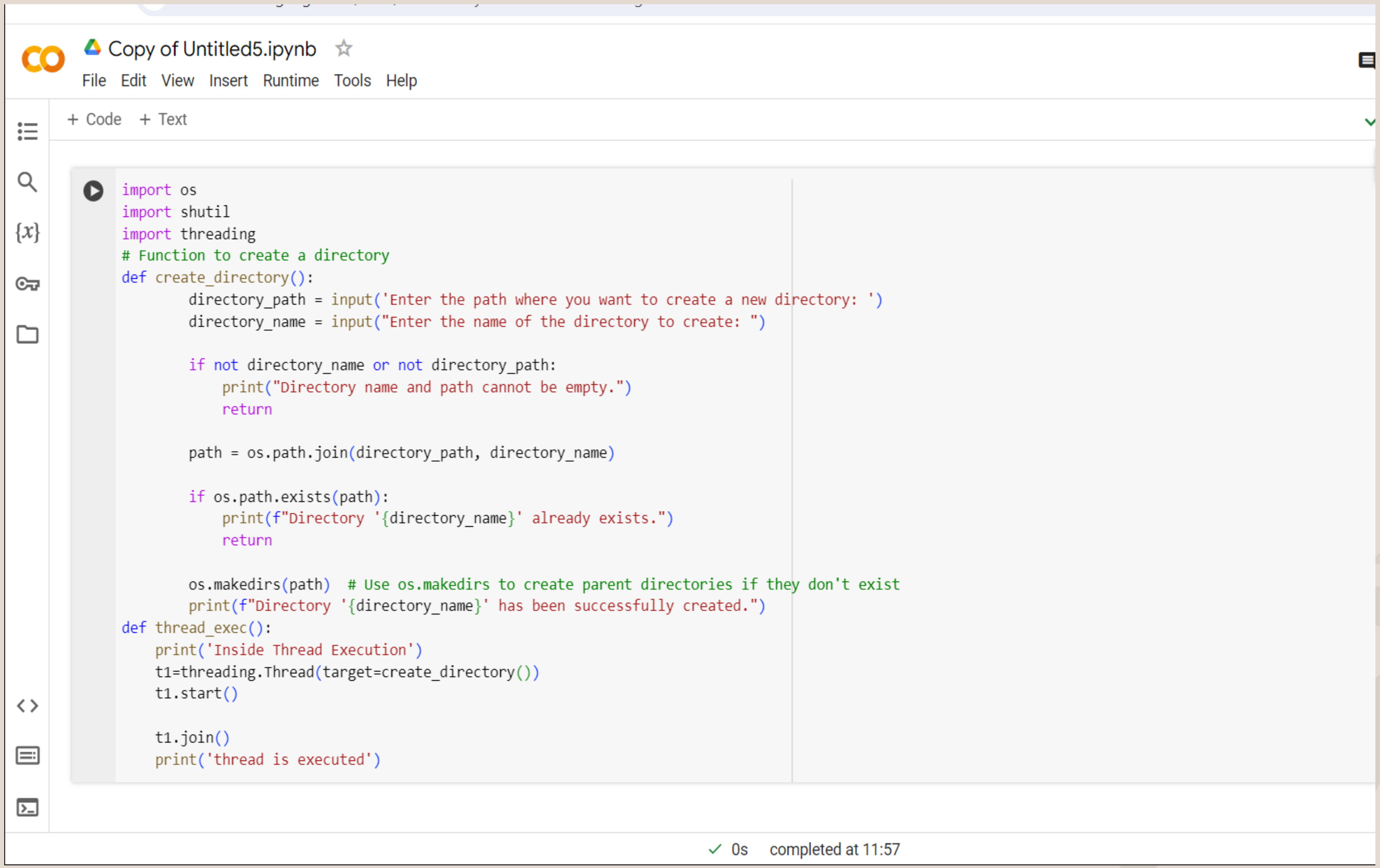
Functions :

- **Create a Directory**: Create a new directory at the specified path.
- **Delete a Directory:** Delete an existing directory and its contents.

- **List Files in a Directory:** List files within a specified directory and their types.
- **Rename a Directory:** Rename an existing directory.
- **Move Files from One Directory to Another:** Move all files from one directory to another.
- **Create a File:** Create a new text file at the specified path.
- **Delete a File:** Delete an existing text file.
- **Edit a Text File:** Edit the content of an existing text file.
- **Copy Content from One Text File to Another:** Copy the content of one text file to another.

- **List Directories:** List directories in a specified path.

1 .create_directory() function: It creates the directory in the specified path. If the directory exists it displays the message the directory already exists. The directory name and path you entered is not empty.



```python
import os
import shutil
import threading
# Function to create a directory
def create_directory():
        directory_path = input('Enter the path where you want to create a new directory: ')
        directory_name = input("Enter the name of the directory to create: ")

        if not directory_name or not directory_path:
            print("Directory name and path cannot be empty.")
            return

        path = os.path.join(directory_path, directory_name)

        if os.path.exists(path):
            print(f"Directory '{directory_name}' already exists.")
            return

        os.makedirs(path)  # Use os.makedirs to create parent directories if they don't exist
        print(f"Directory '{directory_name}' has been successfully created.")
def thread_exec():
    print('Inside Thread Execution')
    t1=threading.Thread(target=create_directory())
    t1.start()

    t1.join()
    print('thread is executed')
```

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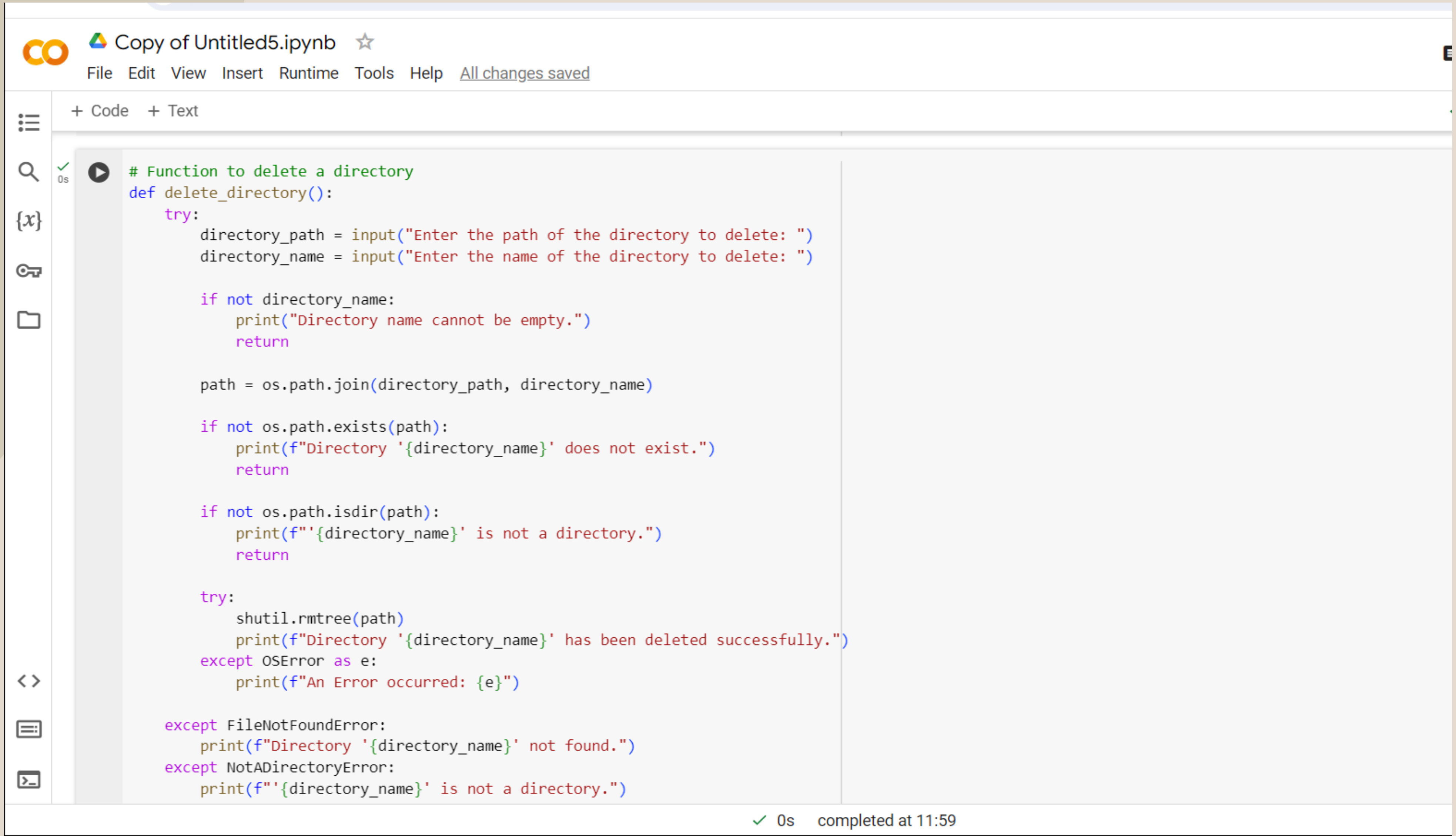
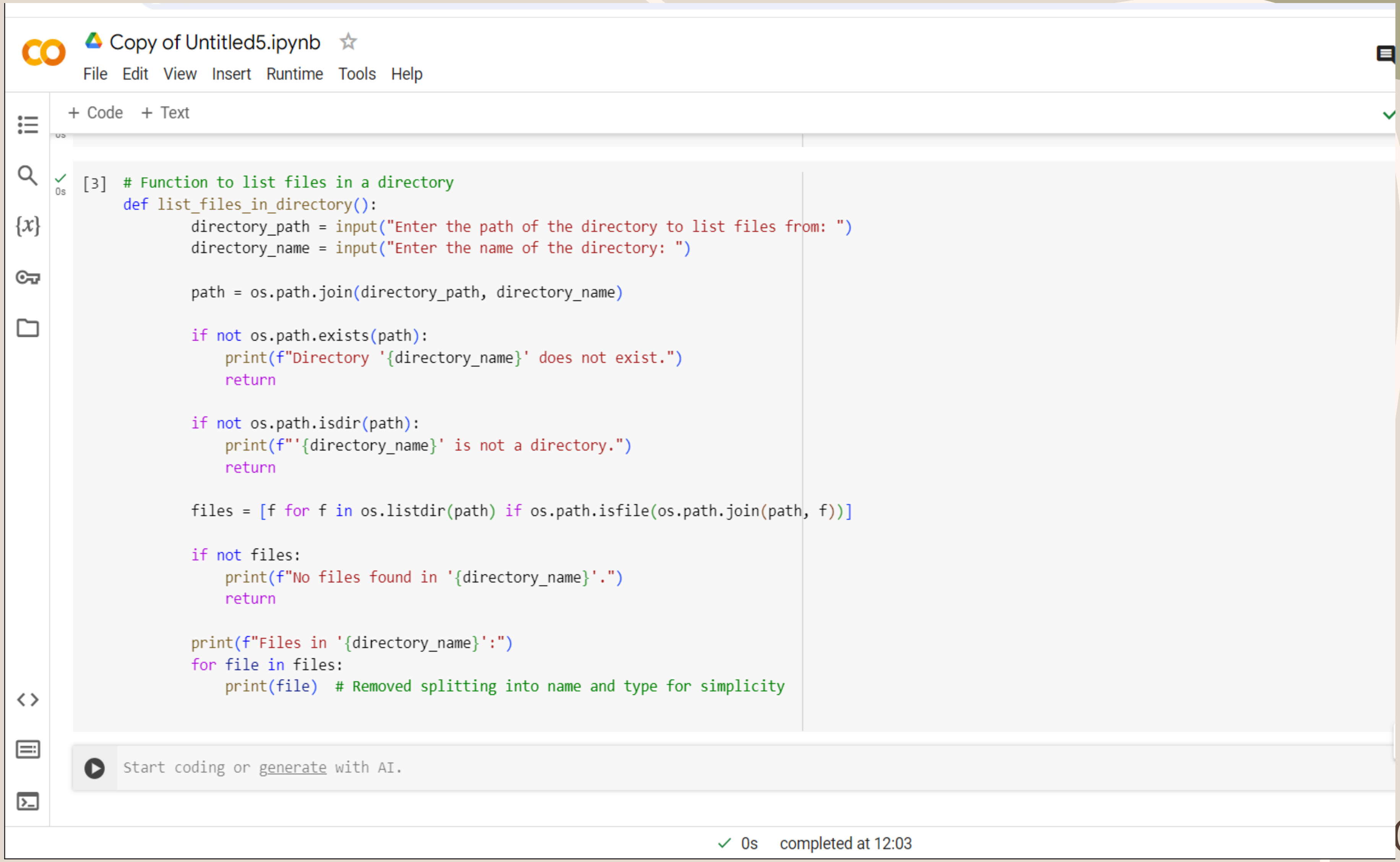
2.delete_directory() function: This function deletes the directory that you entered .Directory name cannot be empty .It checks whether the directory exists or not .If the directory not found it displays that the directory not found. If you entered file instead of directory then it displays that it is not a directory..



```
# Function to delete a directory
def delete_directory():
    try:
        directory_path = input("Enter the path of the directory to delete: ")
        directory_name = input("Enter the name of the directory to delete: ")

        if not directory_name:
            print("Directory name cannot be empty.")
            return

        path = os.path.join(directory_path, directory_name)

        if not os.path.exists(path):
            print(f"Directory '{directory_name}' does not exist.")
            return

        if not os.path.isdir(path):
            print(f"'{directory_name}' is not a directory.")
            return

        try:
            shutil.rmtree(path)
            print(f"Directory '{directory_name}' has been deleted successfully.")
        except OSError as e:
            print(f"An Error occurred: {e}")

    except FileNotFoundError:
        print(f"Directory '{directory_name}' not found.")
    except NotADirectoryError:
        print(f"'{directory_name}' is not a directory.")
```

3.List_files_in_directory() function:: It displays the list of files in given directory .



```
[3] # Function to list files in a directory
    def list_files_in_directory():
            directory_path = input("Enter the path of the directory to list files from: ")
            directory_name = input("Enter the name of the directory: ")

            path = os.path.join(directory_path, directory_name)

            if not os.path.exists(path):
                print(f"Directory '{directory_name}' does not exist.")
                return

            if not os.path.isdir(path):
                print(f"'{directory_name}' is not a directory.")
                return

            files = [f for f in os.listdir(path) if os.path.isfile(os.path.join(path, f))]

            if not files:
                print(f"No files found in '{directory_name}'.")
                return

            print(f"Files in '{directory_name}':")
            for file in files:
                print(file)  # Removed splitting into name and type for simplicity
```

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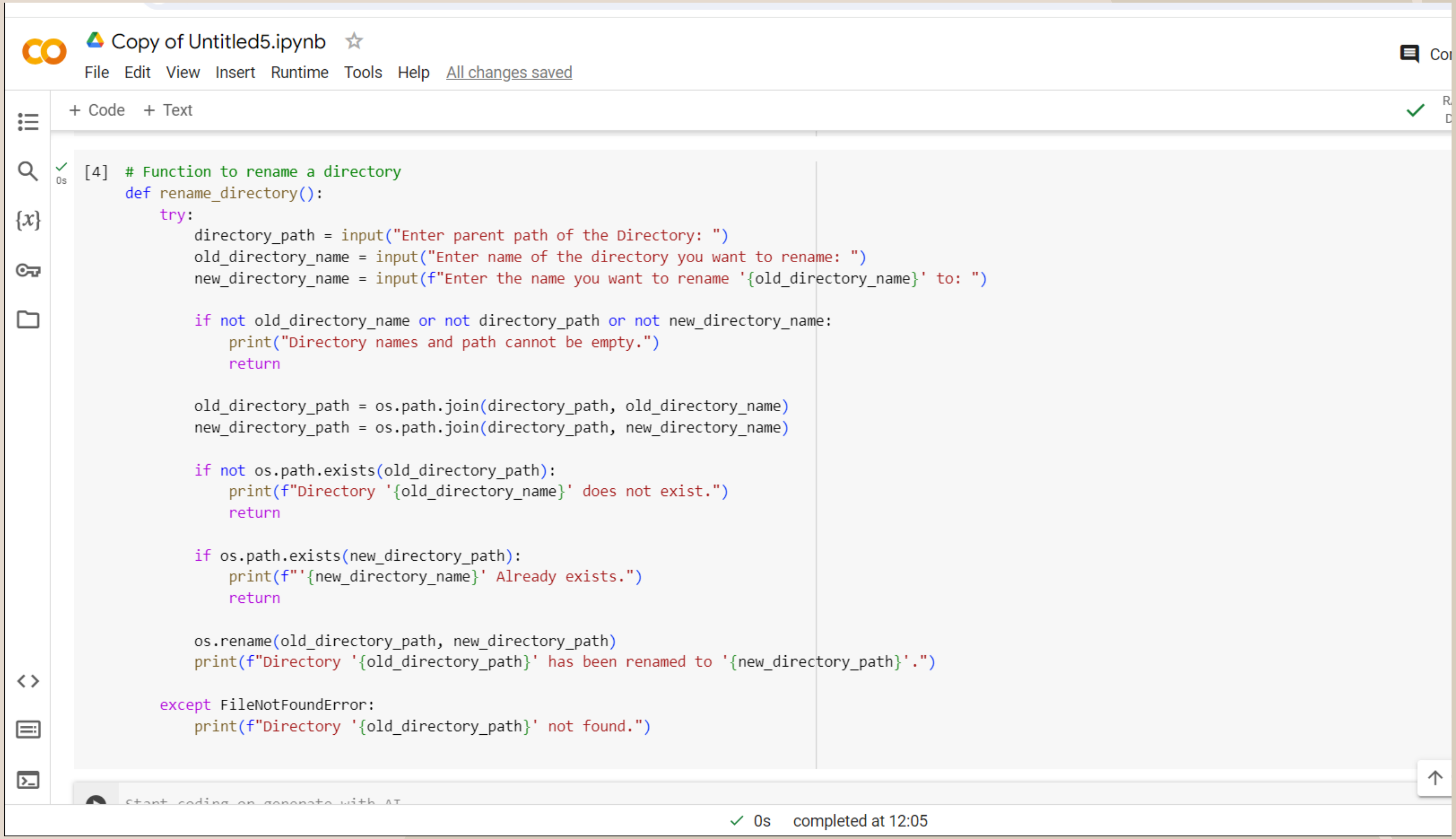
4.rename_directory() function: It renames the existing directory into the new name.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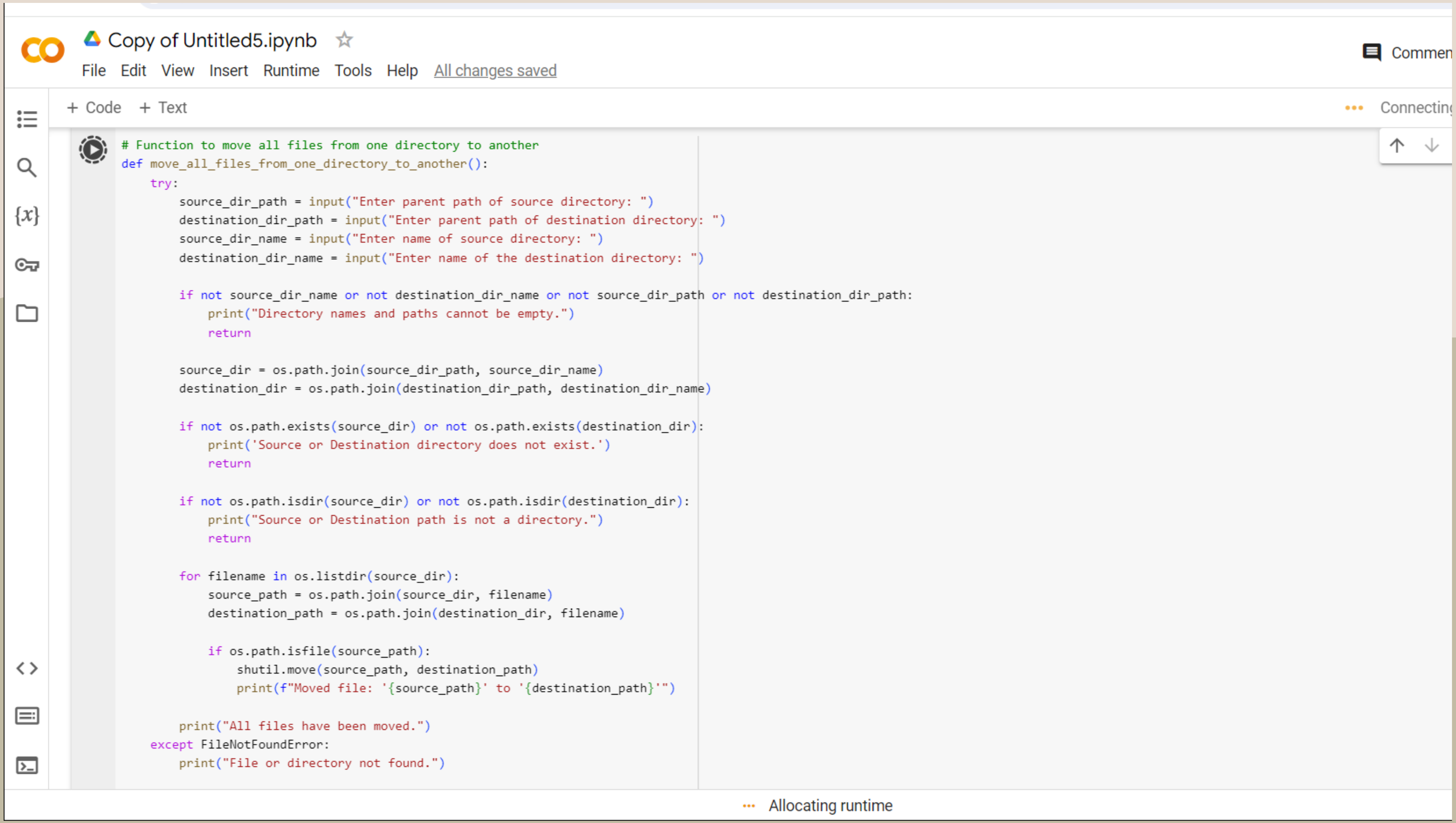
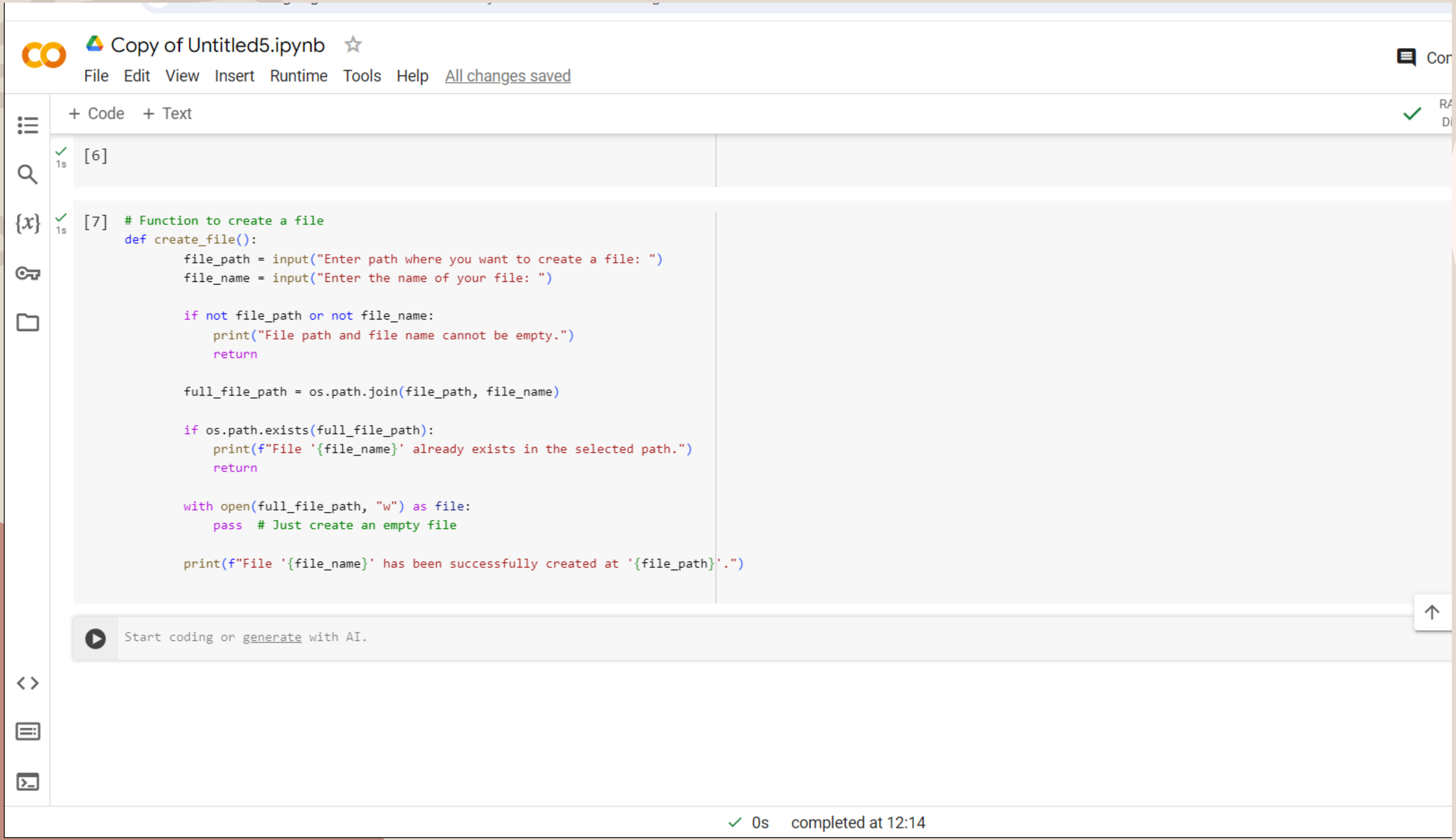
```python
# Function to rename a directory
def rename_directory():
    try:
        directory_path = input("Enter parent path of the Directory: ")
        old_directory_name = input("Enter name of the directory you want to rename: ")
        new_directory_name = input(f"Enter the name you want to rename '{old_directory_name}' to: ")

        if not old_directory_name or not directory_path or not new_directory_name:
            print("Directory names and path cannot be empty.")
            return

        old_directory_path = os.path.join(directory_path, old_directory_name)
        new_directory_path = os.path.join(directory_path, new_directory_name)

        if not os.path.exists(old_directory_path):
            print(f"Directory '{old_directory_name}' does not exist.")
            return

        if os.path.exists(new_directory_path):
            print(f"'{new_directory_name}' Already exists.")
            return

        os.rename(old_directory_path, new_directory_path)
        print(f"Directory '{old_directory_path}' has been renamed to '{new_directory_path}'.")

    except FileNotFoundError:
        print(f"Directory '{old_directory_path}' not found.")
```

5.move_all_files_from_one_directory_to_another() function: it moves all files from the source directory to the destination directory.



```
# Function to move all files from one directory to another
def move_all_files_from_one_directory_to_another():
    try:
        source_dir_path = input("Enter parent path of source directory: ")
        destination_dir_path = input("Enter parent path of destination directory: ")
        source_dir_name = input("Enter name of source directory: ")
        destination_dir_name = input("Enter name of the destination directory: ")

        if not source_dir_name or not destination_dir_name or not source_dir_path or not destination_dir_path:
            print("Directory names and paths cannot be empty.")
            return

        source_dir = os.path.join(source_dir_path, source_dir_name)
        destination_dir = os.path.join(destination_dir_path, destination_dir_name)

        if not os.path.exists(source_dir) or not os.path.exists(destination_dir):
            print('Source or Destination directory does not exist.')
            return

        if not os.path.isdir(source_dir) or not os.path.isdir(destination_dir):
            print("Source or Destination path is not a directory.")
            return

        for filename in os.listdir(source_dir):
            source_path = os.path.join(source_dir, filename)
            destination_path = os.path.join(destination_dir, filename)

            if os.path.isfile(source_path):
                shutil.move(source_path, destination_path)
                print(f"Moved file: '{source_path}' to '{destination_path}'")

        print("All files have been moved.")
    except FileNotFoundError:
        print("File or directory not found.")
```

6.create_file() function : this function creates file in the specified directory .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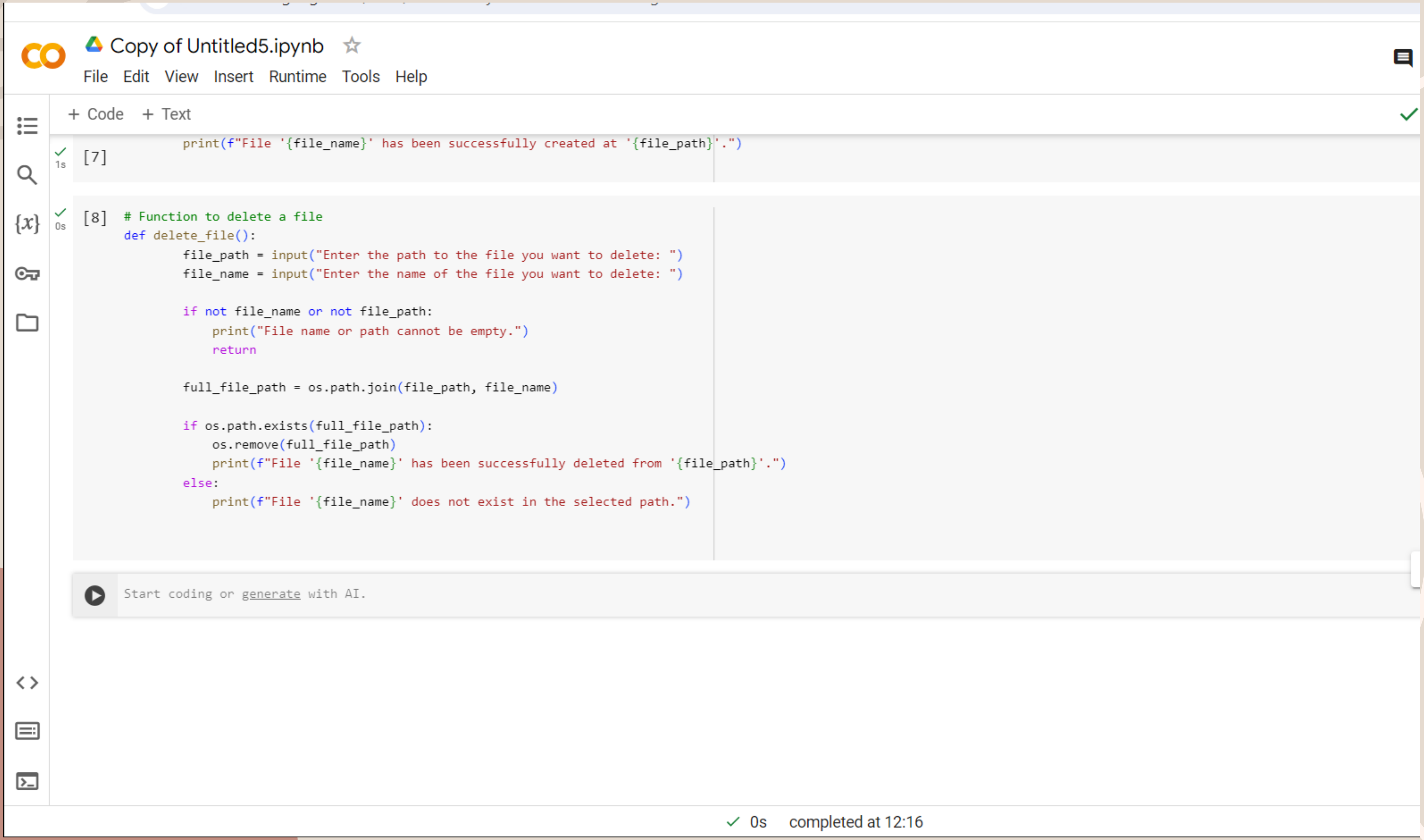
```python
# Function to create a file
def create_file():
        file_path = input("Enter path where you want to create a file: ")
        file_name = input("Enter the name of your file: ")

        if not file_path or not file_name:
            print("File path and file name cannot be empty.")
            return

        full_file_path = os.path.join(file_path, file_name)

        if os.path.exists(full_file_path):
            print(f"File '{file_name}' already exists in the selected path.")
            return

        with open(full_file_path, "w") as file:
            pass  # Just create an empty file

        print(f"File '{file_name}' has been successfully created at '{file_path}'.")
```

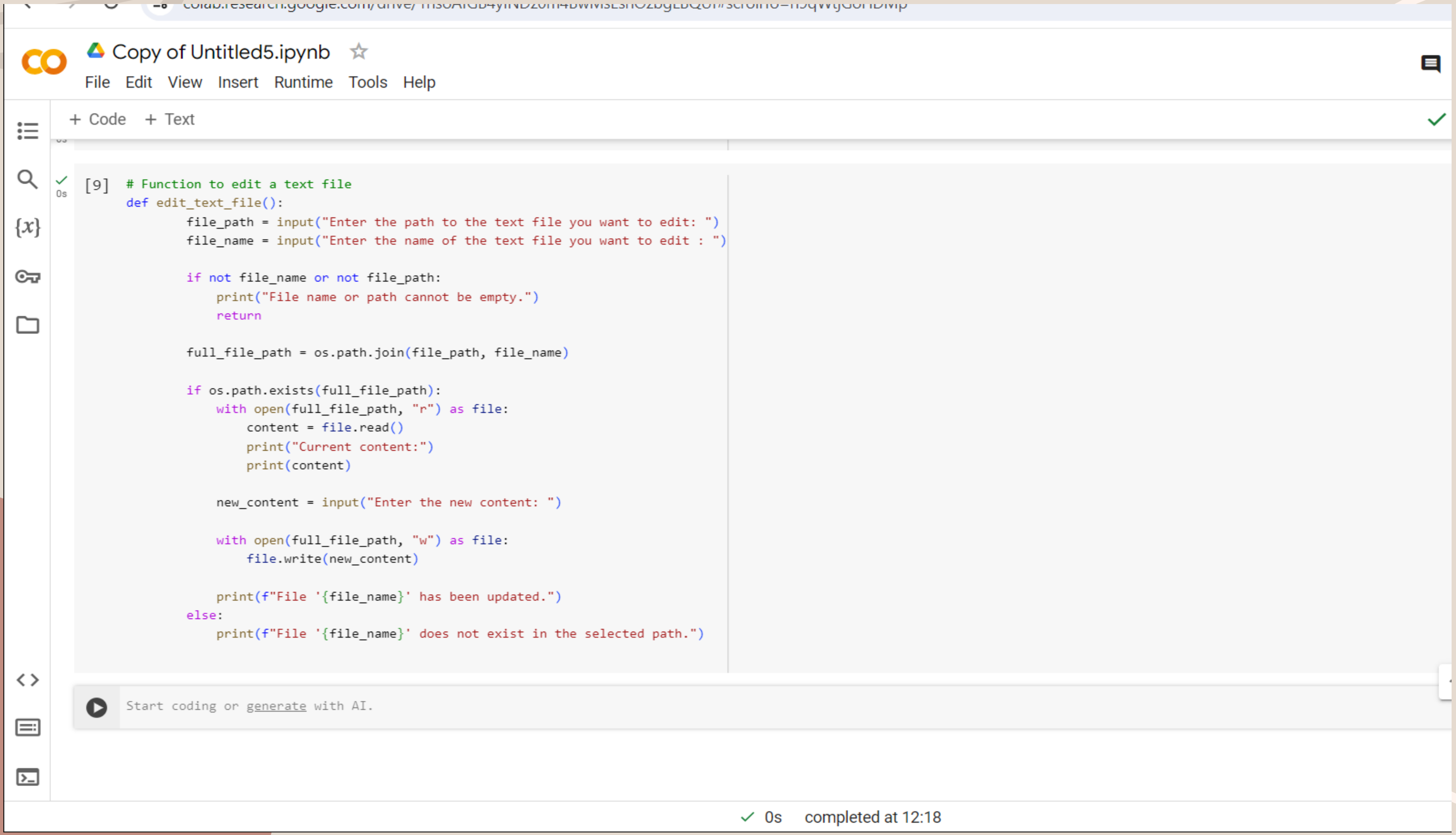
7.delete_file() function : this function helps to delete the file from the specified directory



```
[7]         print(f"File '{file_name}' has been successfully created at '{file_path}'.")
```

```
[8]   # Function to delete a file
      def delete_file():
              file_path = input("Enter the path to the file you want to delete: ")
              file_name = input("Enter the name of the file you want to delete: ")

              if not file_name or not file_path:
                  print("File name or path cannot be empty.")
                  return

              full_file_path = os.path.join(file_path, file_name)

              if os.path.exists(full_file_path):
                  os.remove(full_file_path)
                  print(f"File '{file_name}' has been successfully deleted from '{file_path}'.")
              else:
                  print(f"File '{file_name}' does not exist in the selected path.")
```

8.edit_text_file() function : we can add text to the created file or else we can edit the text already containing in the file .



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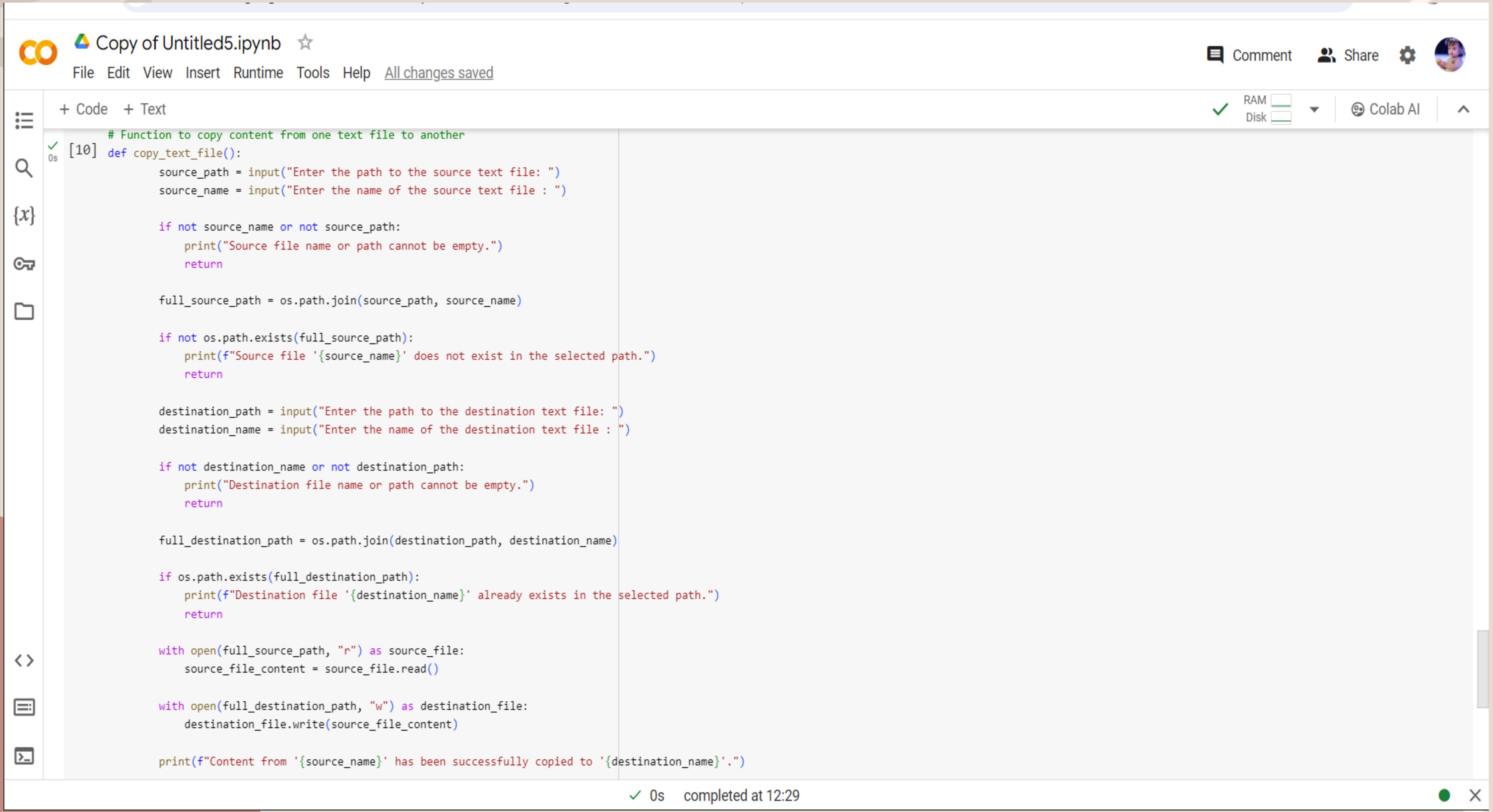
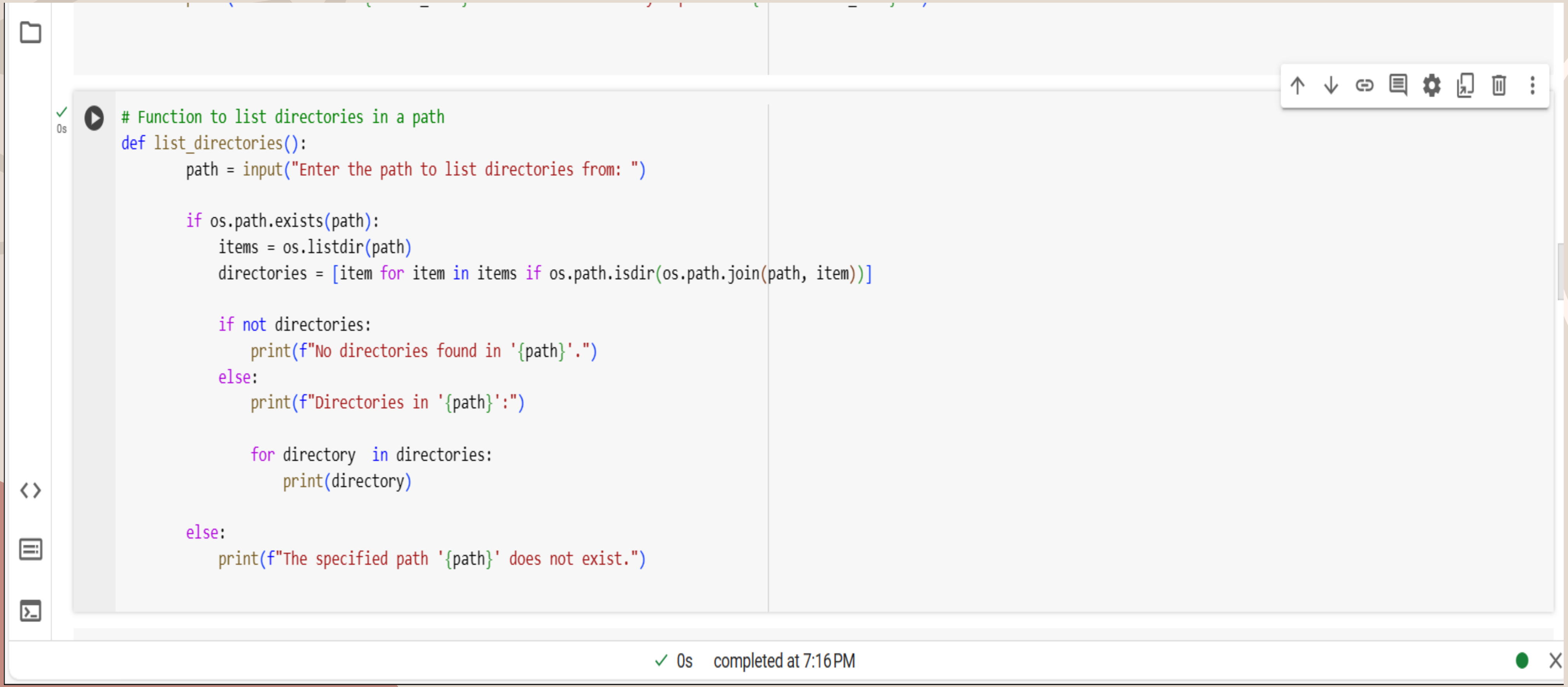
```
# Function to edit a text file
def edit_text_file():
        file_path = input("Enter the path to the text file you want to edit: ")
        file_name = input("Enter the name of the text file you want to edit : ")

        if not file_name or not file_path:
            print("File name or path cannot be empty.")
            return

        full_file_path = os.path.join(file_path, file_name)

        if os.path.exists(full_file_path):
            with open(full_file_path, "r") as file:
                content = file.read()
                print("Current content:")
                print(content)

            new_content = input("Enter the new content: ")

            with open(full_file_path, "w") as file:
                file.write(new_content)

            print(f"File '{file_name}' has been updated.")
        else:
            print(f"File '{file_name}' does not exist in the selected path.")
```

9.copy_text_file() function : it copies the text files from source file to destination file..



```
# Function to copy content from one text file to another
def copy_text_file():
        source_path = input("Enter the path to the source text file: ")
        source_name = input("Enter the name of the source text file : ")

        if not source_name or not source_path:
            print("Source file name or path cannot be empty.")
            return

        full_source_path = os.path.join(source_path, source_name)

        if not os.path.exists(full_source_path):
            print(f"Source file '{source_name}' does not exist in the selected path.")
            return

        destination_path = input("Enter the path to the destination text file: ")
        destination_name = input("Enter the name of the destination text file : ")

        if not destination_name or not destination_path:
            print("Destination file name or path cannot be empty.")
            return

        full_destination_path = os.path.join(destination_path, destination_name)

        if os.path.exists(full_destination_path):
            print(f"Destination file '{destination_name}' already exists in the selected path.")
            return

        with open(full_source_path, "r") as source_file:
            source_file_content = source_file.read()

        with open(full_destination_path, "w") as destination_file:
            destination_file.write(source_file_content)

        print(f"Content from '{source_name}' has been successfully copied to '{destination_name}'.")
```

10 . List_directories() : it displays the list of directories in the given directory.



```
# Function to list directories in a path
def list_directories():
        path = input("Enter the path to list directories from: ")

        if os.path.exists(path):
            items = os.listdir(path)
            directories = [item for item in items if os.path.isdir(os.path.join(path, item))]

            if not directories:
                print(f"No directories found in '{path}'.")
            else:
                print(f"Directories in '{path}':")

                for directory  in directories:
                    print(directory)

        else:
            print(f"The specified path '{path}' does not exist.")
```

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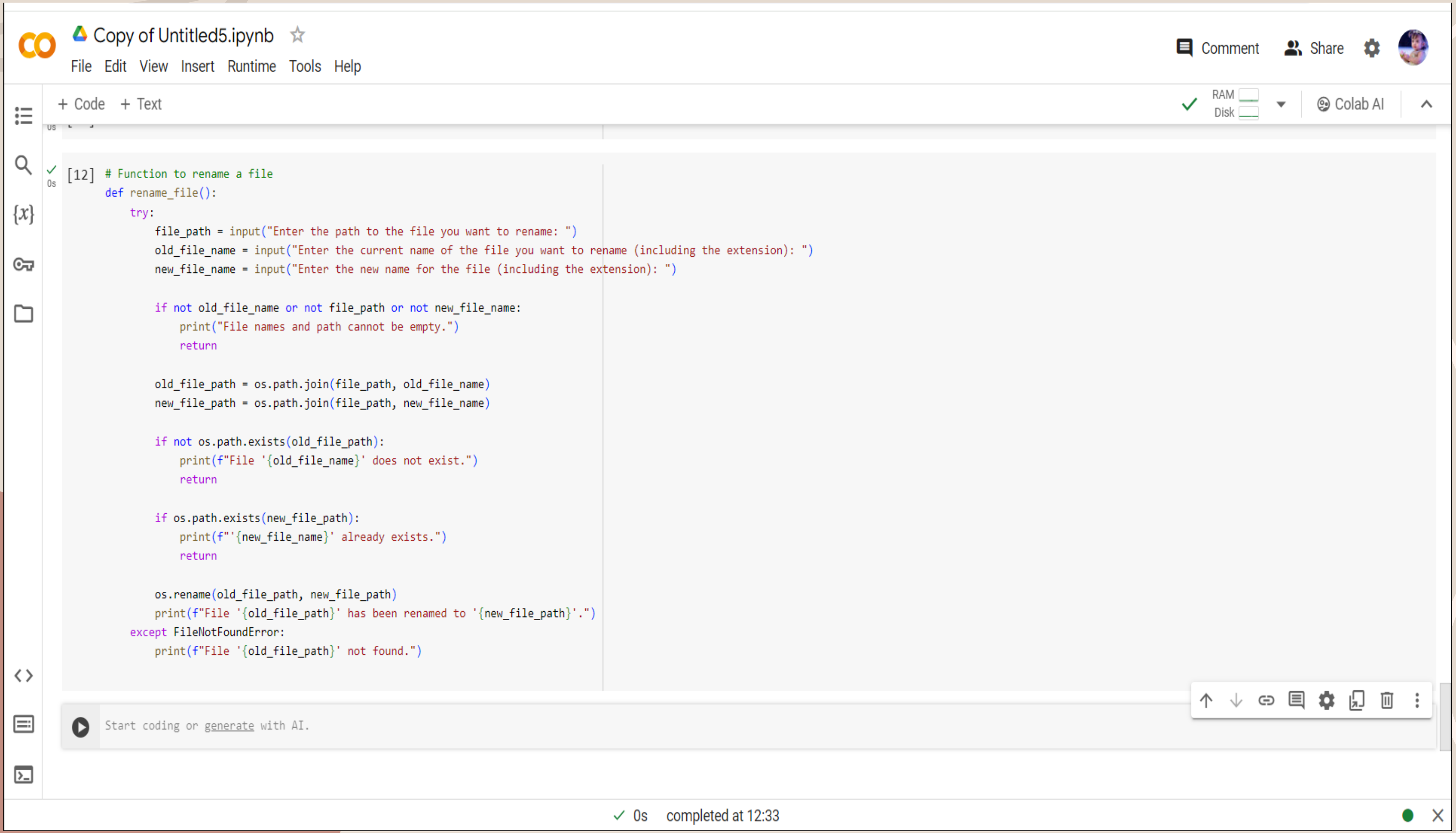
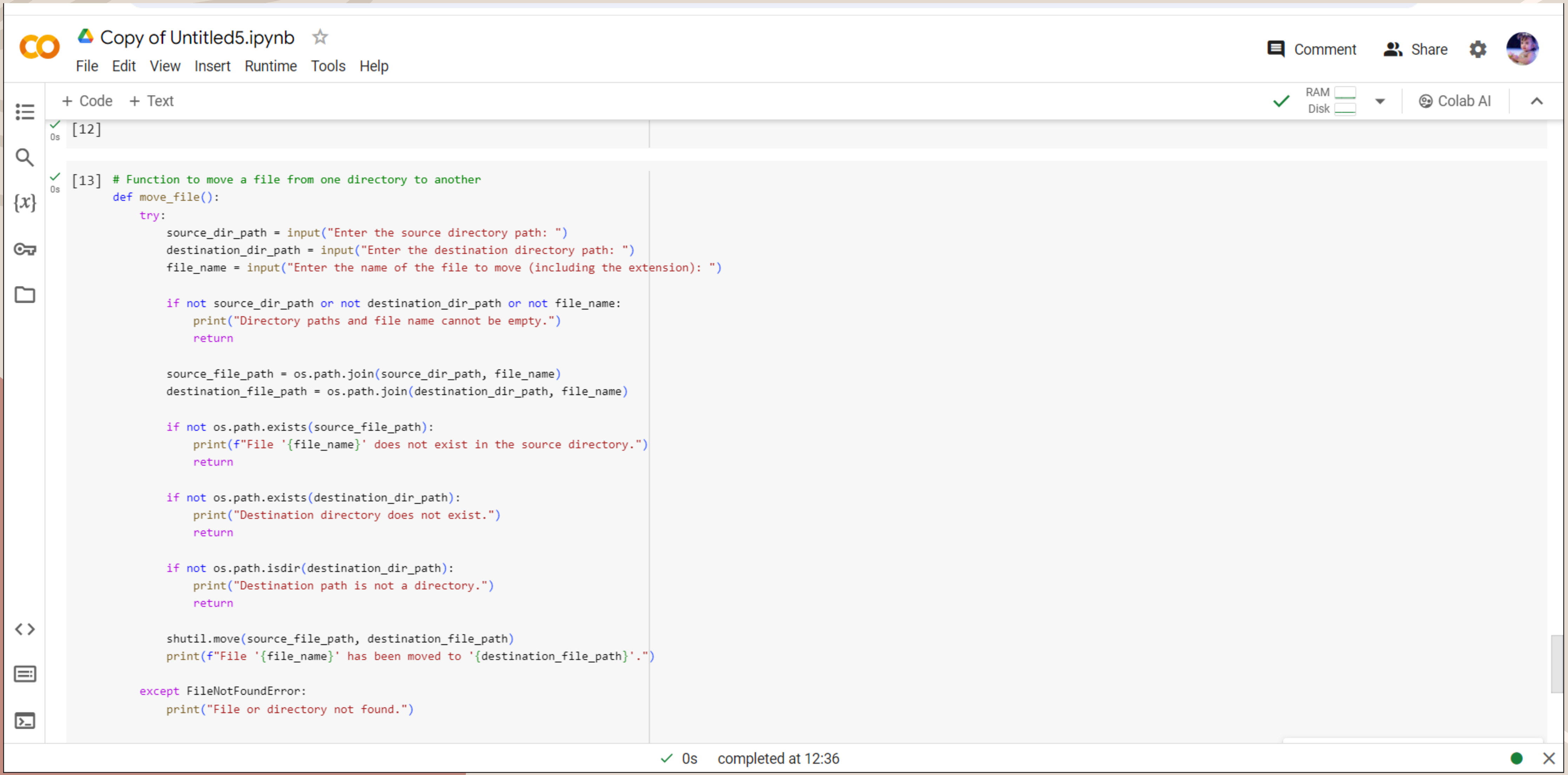
11. rename_file() function :: it changes the name of the file from old name to new name.



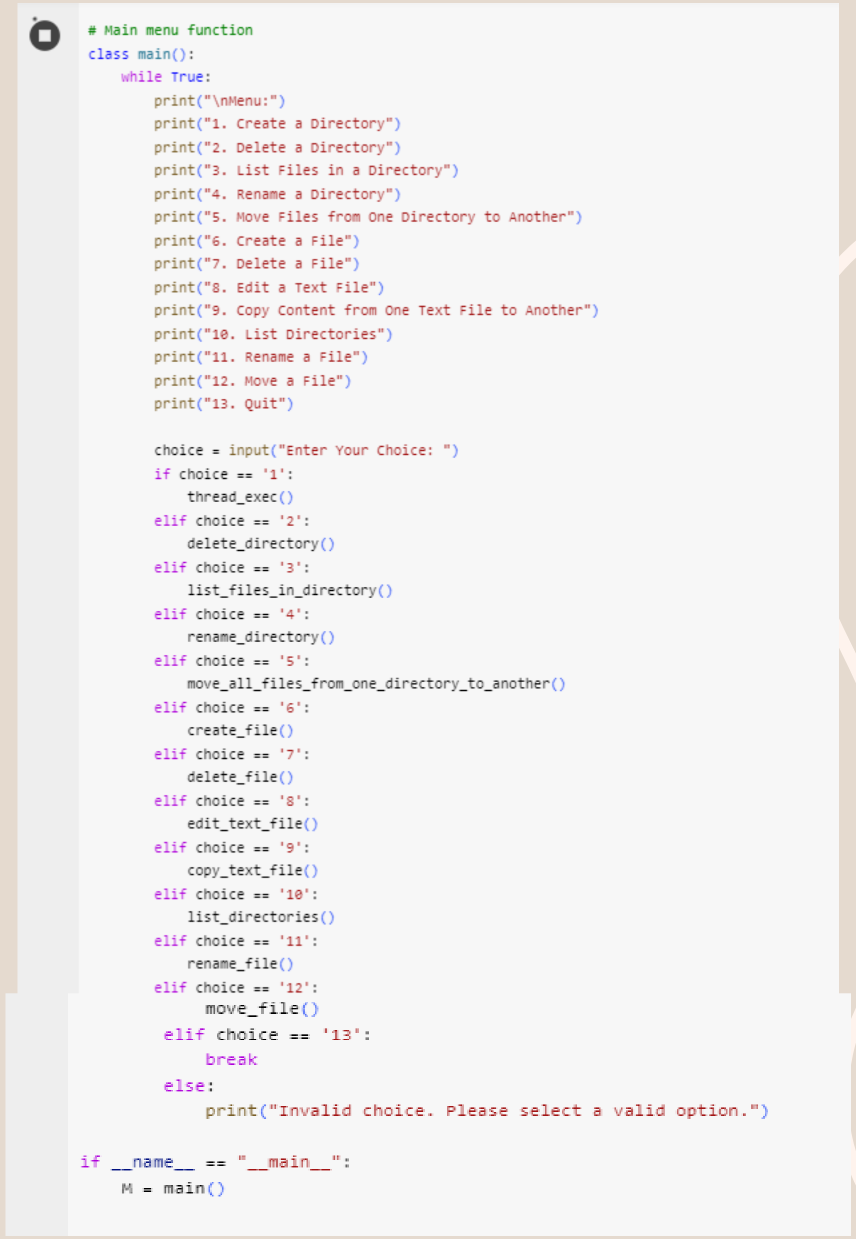
```python
# Function to rename a file
def rename_file():
    try:
        file_path = input("Enter the path to the file you want to rename: ")
        old_file_name = input("Enter the current name of the file you want to rename (including the extension): ")
        new_file_name = input("Enter the new name for the file (including the extension): ")

        if not old_file_name or not file_path or not new_file_name:
            print("File names and path cannot be empty.")
            return

        old_file_path = os.path.join(file_path, old_file_name)
        new_file_path = os.path.join(file_path, new_file_name)

        if not os.path.exists(old_file_path):
            print(f"File '{old_file_name}' does not exist.")
            return

        if os.path.exists(new_file_path):
            print(f"'{new_file_name}' already exists.")
            return

        os.rename(old_file_path, new_file_path)
        print(f"File '{old_file_path}' has been renamed to '{new_file_path}'.")
    except FileNotFoundError:
        print(f"File '{old_file_path}' not found.")
```

12. move_file() function : this function moves all the files from source to destination .



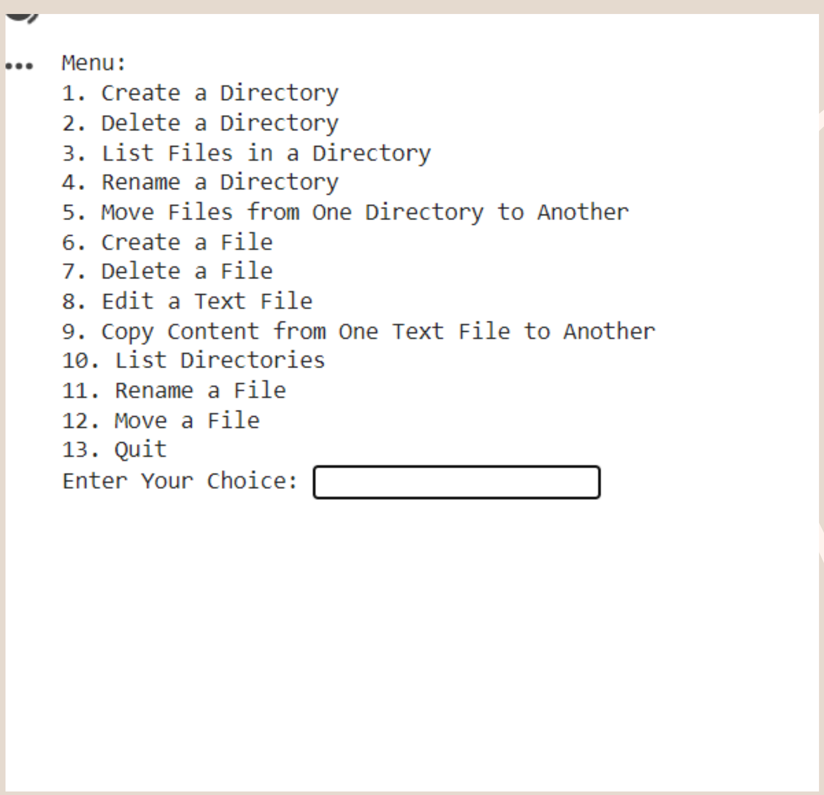
```
[13] # Function to move a file from one directory to another
     def move_file():
         try:
             source_dir_path = input("Enter the source directory path: ")
             destination_dir_path = input("Enter the destination directory path: ")
             file_name = input("Enter the name of the file to move (including the extension): ")

             if not source_dir_path or not destination_dir_path or not file_name:
                 print("Directory paths and file name cannot be empty.")
                 return

             source_file_path = os.path.join(source_dir_path, file_name)
             destination_file_path = os.path.join(destination_dir_path, file_name)

             if not os.path.exists(source_file_path):
                 print(f"File '{file_name}' does not exist in the source directory.")
                 return

             if not os.path.exists(destination_dir_path):
                 print("Destination directory does not exist.")
                 return

             if not os.path.isdir(destination_dir_path):
                 print("Destination path is not a directory.")
                 return

             shutil.move(source_file_path, destination_file_path)
             print(f"File '{file_name}' has been moved to '{destination_file_path}'.")

         except FileNotFoundError:
             print("File or directory not found.")
```

Main() class : Here all the functions are set as menu . When we enter the desired choice from the menu then the corresponding function called and executes the statements..



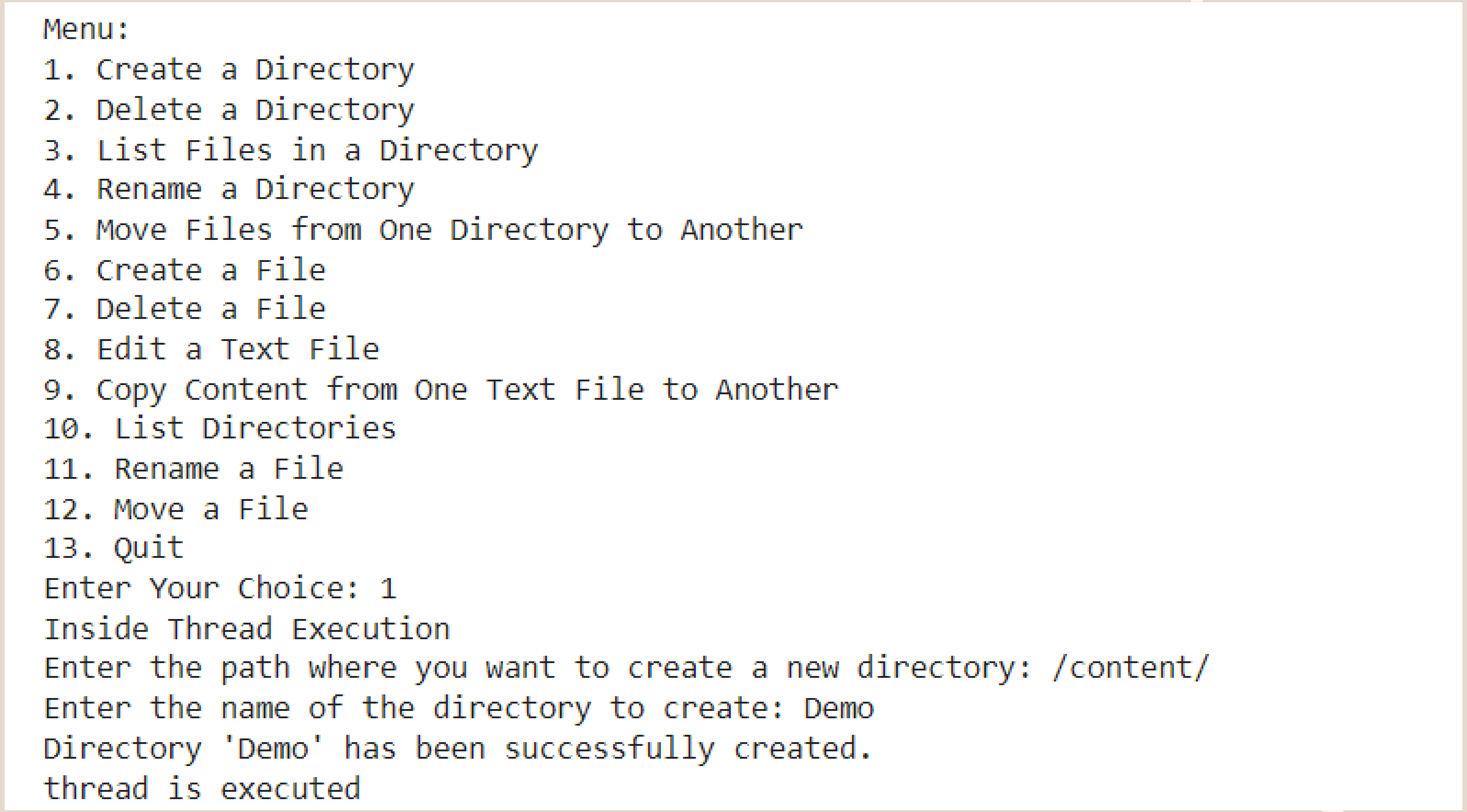
```python
# Main menu function
class main():
    while True:
        print("\nMenu:")
        print("1. Create a Directory")
        print("2. Delete a Directory")
        print("3. List Files in a Directory")
        print("4. Rename a Directory")
        print("5. Move Files from One Directory to Another")
        print("6. Create a File")
        print("7. Delete a File")
        print("8. Edit a Text File")
        print("9. Copy Content from One Text File to Another")
        print("10. List Directories")
        print("11. Rename a File")
        print("12. Move a File")
        print("13. Quit")

        choice = input("Enter Your Choice: ")
        if choice == '1':
            thread_exec()
        elif choice == '2':
            delete_directory()
        elif choice == '3':
            list_files_in_directory()
        elif choice == '4':
            rename_directory()
        elif choice == '5':
            move_all_files_from_one_directory_to_another()
        elif choice == '6':
            create_file()
        elif choice == '7':
            delete_file()
        elif choice == '8':
            edit_text_file()
        elif choice == '9':
            copy_text_file()
        elif choice == '10':
            list_directories()
        elif choice == '11':
            rename_file()
        elif choice == '12':
            move_file()
        elif choice == '13':
            break
        else:
            print("Invalid choice. Please select a valid option.")

if __name__ == "__main__":
    M = main()
```

This is menu when the main class executed . It asks for the choice from the menu . If you enter your choice it will executes the corresponding function.



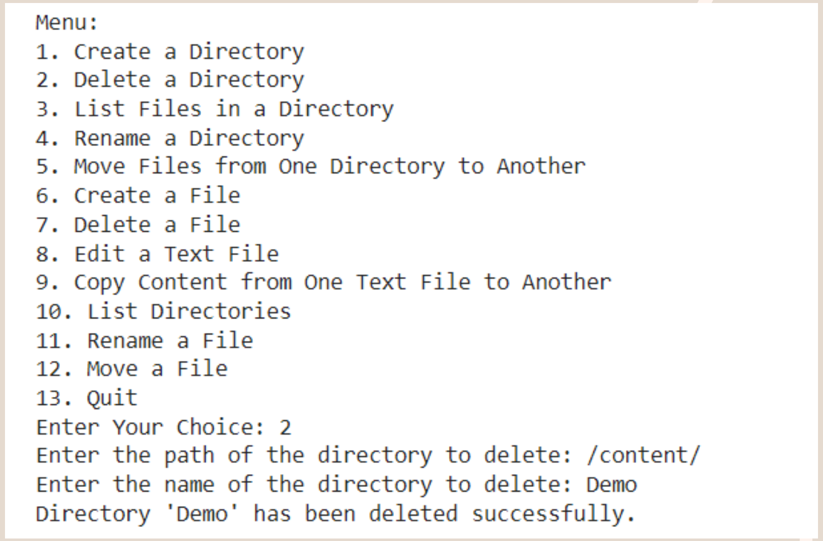
```
Menu:
1. Create a Directory
2. Delete a Directory
3. List Files in a Directory
4. Rename a Directory
5. Move Files from One Directory to Another
6. Create a File
7. Delete a File
8. Edit a Text File
9. Copy Content from One Text File to Another
10. List Directories
11. Rename a File
12. Move a File
13. Quit
Enter Your Choice:
```

When we enter 1 as choice from menu then thread executes the create directory function and it creates the directory in the path where you specified .



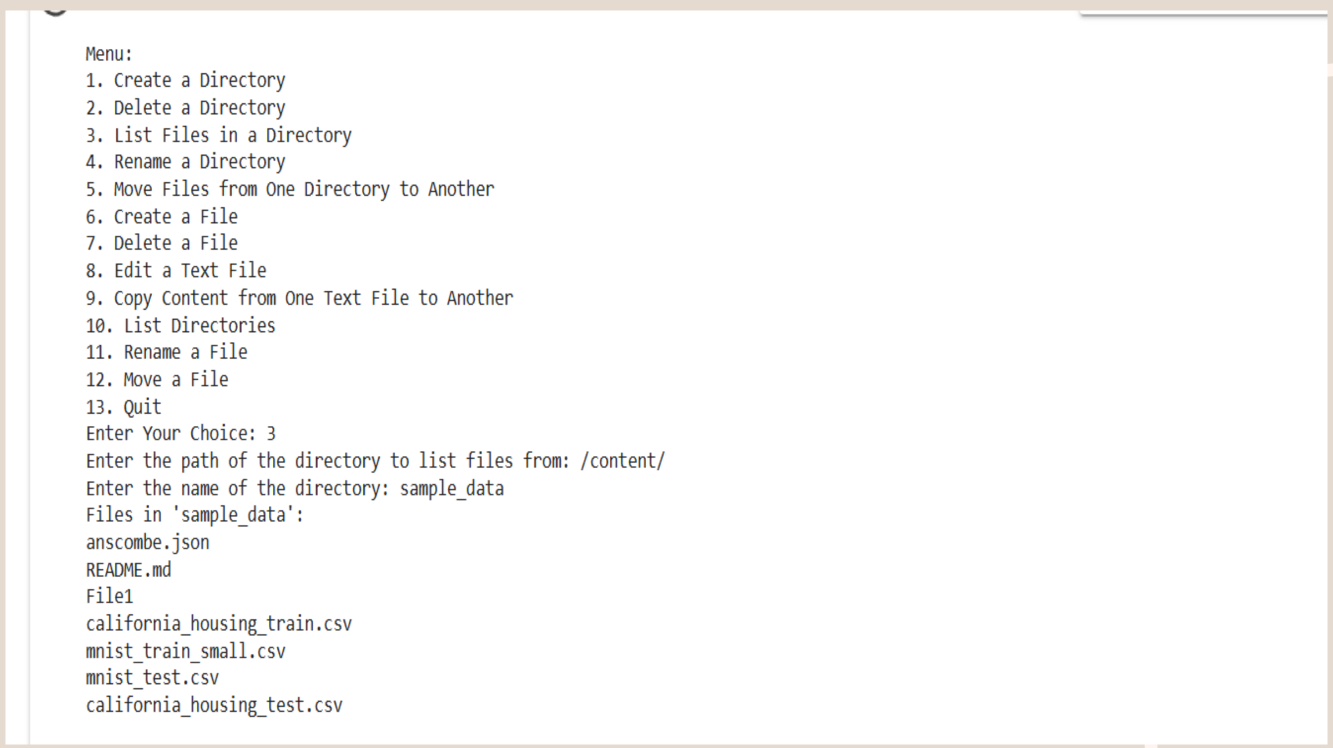
```
Menu:
1. Create a Directory
2. Delete a Directory
3. List Files in a Directory
4. Rename a Directory
5. Move Files from One Directory to Another
6. Create a File
7. Delete a File
8. Edit a Text File
9. Copy Content from One Text File to Another
10. List Directories
11. Rename a File
12. Move a File
13. Quit
Enter Your Choice: 1
Inside Thread Execution
Enter the path where you want to create a new directory: /content/
Enter the name of the directory to create: Demo
Directory 'Demo' has been successfully created.
thread is executed
```

When you enter 2 as choice from menu then it calls the delete directory function and deletes the directory from the specified path .



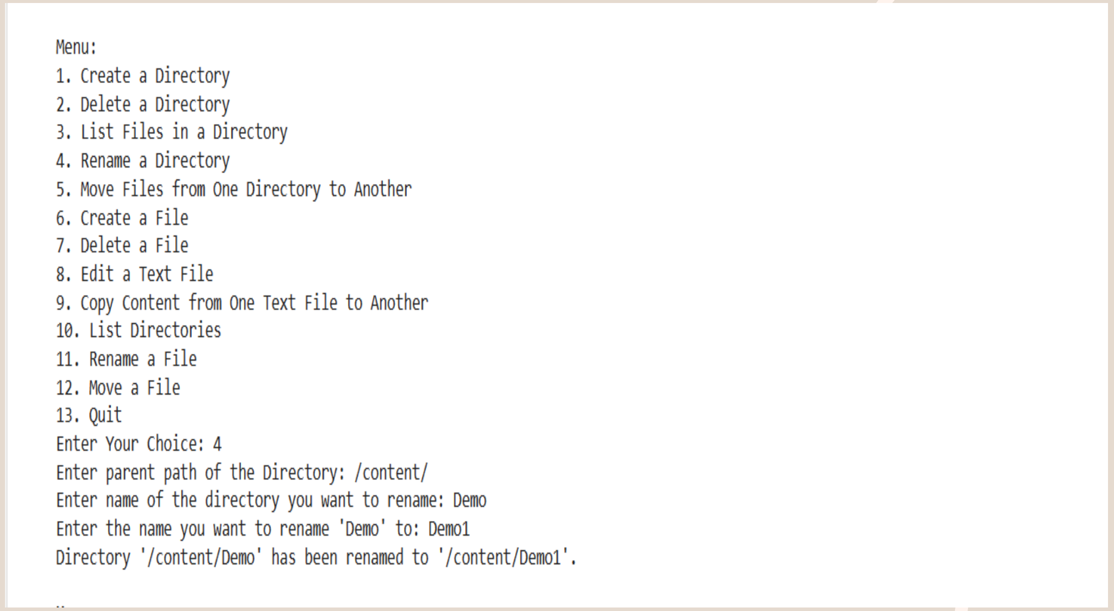
```
Menu:
1. Create a Directory
2. Delete a Directory
3. List Files in a Directory
4. Rename a Directory
5. Move Files from One Directory to Another
6. Create a File
7. Delete a File
8. Edit a Text File
9. Copy Content from One Text File to Another
10. List Directories
11. Rename a File
12. Move a File
13. Quit
Enter Your Choice: 2
Enter the path of the directory to delete: /content/
Enter the name of the directory to delete: Demo
Directory 'Demo' has been deleted successfully.
```

When you enter 3 as choice from menu then it calls the list files in a directory function and it displays all files from specified directory.



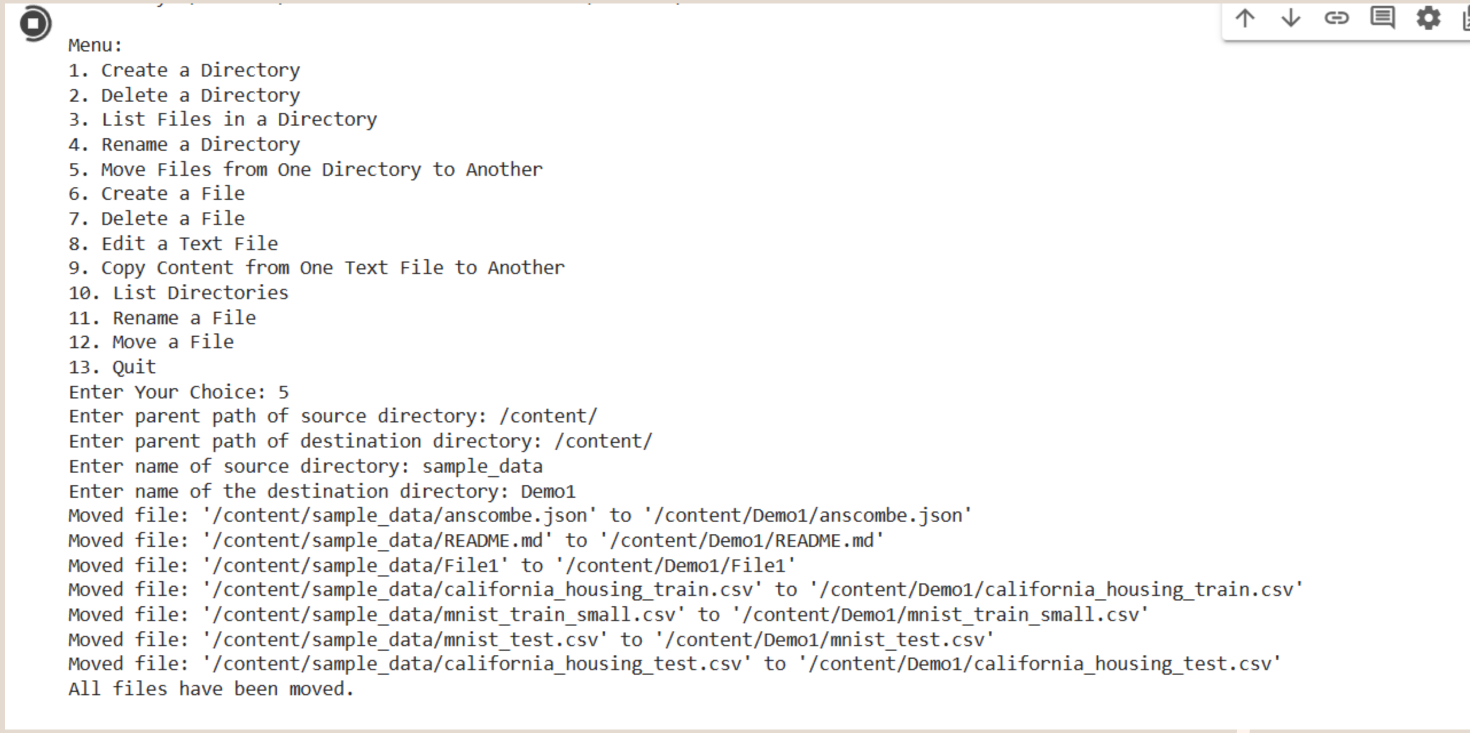
```
Menu:
1. Create a Directory
2. Delete a Directory
3. List Files in a Directory
4. Rename a Directory
5. Move Files from One Directory to Another
6. Create a File
7. Delete a File
8. Edit a Text File
9. Copy Content from One Text File to Another
10. List Directories
11. Rename a File
12. Move a File
13. Quit
Enter Your Choice: 3
Enter the path of the directory to list files from: /content/
Enter the name of the directory: sample_data
Files in 'sample_data':
anscombe.json
README.md
File1
california_housing_train.csv
mnist_train_small.csv
mnist_test.csv
california_housing_test.csv
```

When you enter 4 as choice from menu then it calls rename directory function and it changes the name from old to new name of the directory.



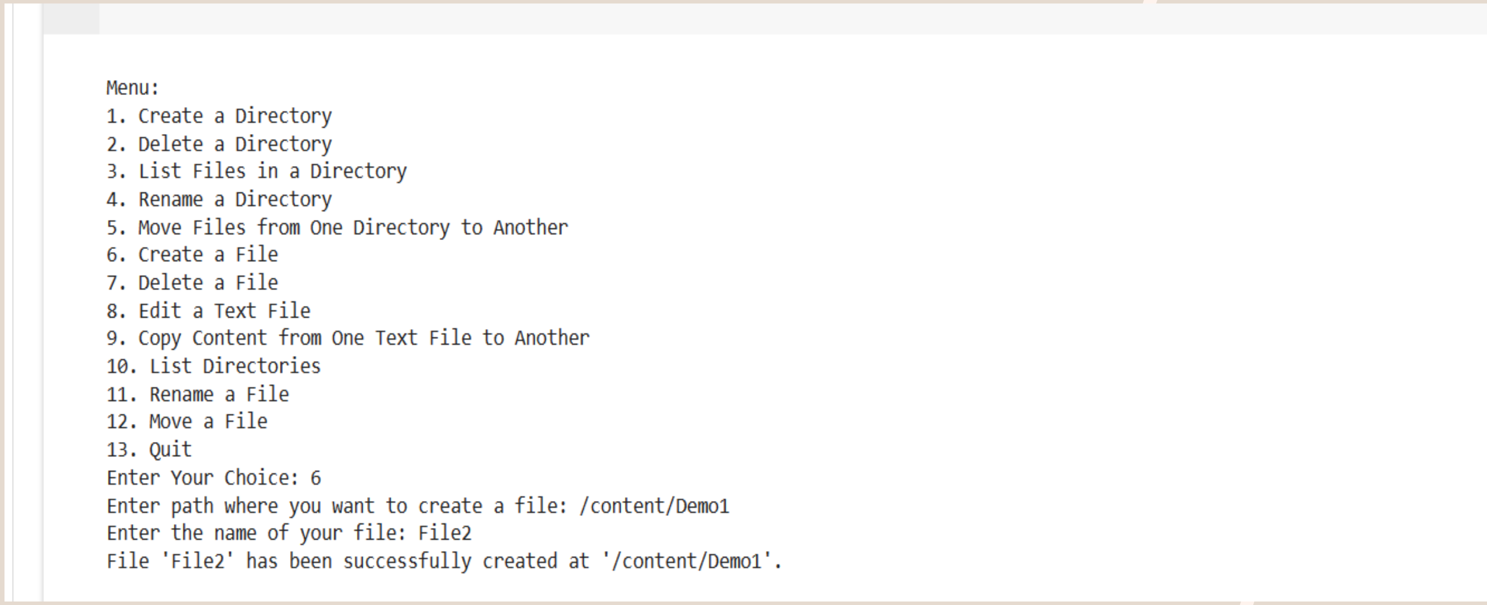
```
Menu:
1. Create a Directory
2. Delete a Directory
3. List Files in a Directory
4. Rename a Directory
5. Move Files from One Directory to Another
6. Create a File
7. Delete a File
8. Edit a Text File
9. Copy Content from One Text File to Another
10. List Directories
11. Rename a File
12. Move a File
13. Quit
Enter Your Choice: 4
Enter parent path of the Directory: /content/
Enter name of the directory you want to rename: Demo
Enter the name you want to rename 'Demo' to: Demo1
Directory '/content/Demo' has been renamed to '/content/Demo1'.
```

When you enter 5 as choice from menu it calls move files from one directory to another function and moves all files from one source directory to destination directory .



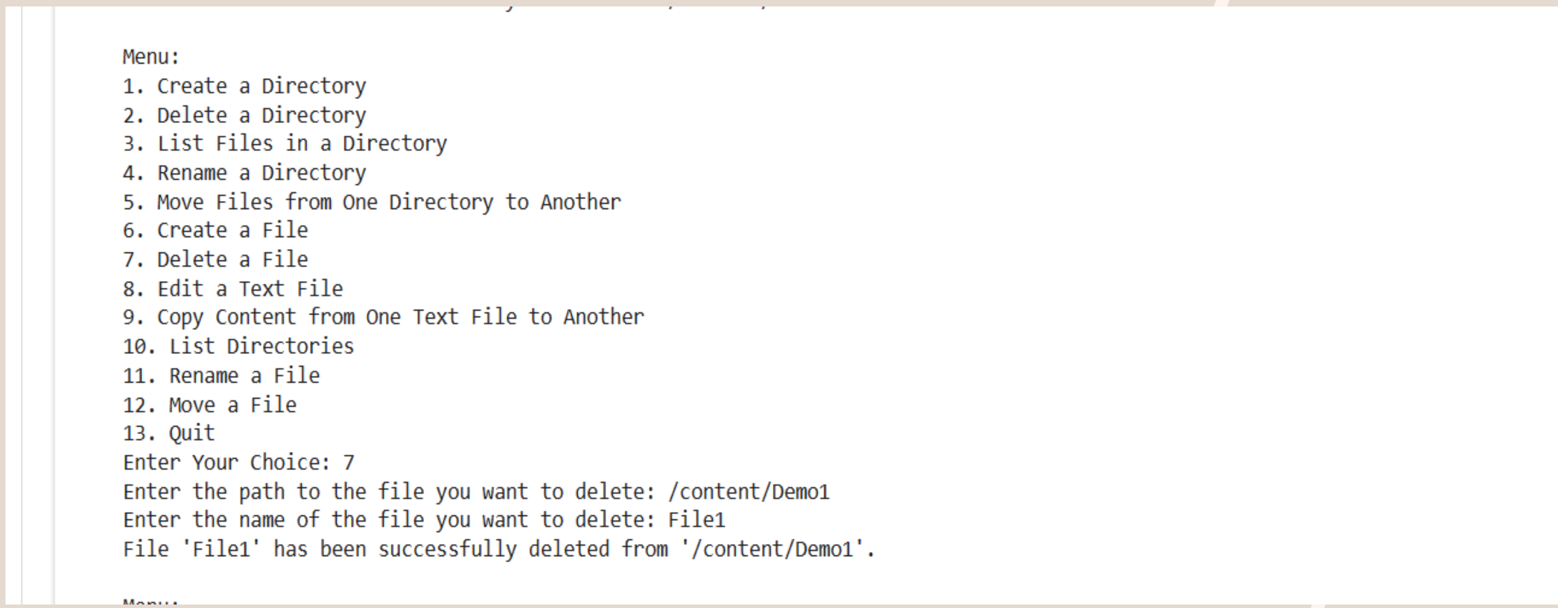
```
Menu:
1. Create a Directory
2. Delete a Directory
3. List Files in a Directory
4. Rename a Directory
5. Move Files from One Directory to Another
6. Create a File
7. Delete a File
8. Edit a Text File
9. Copy Content from One Text File to Another
10. List Directories
11. Rename a File
12. Move a File
13. Quit
Enter Your Choice: 5
Enter parent path of source directory: /content/
Enter parent path of destination directory: /content/
Enter name of source directory: sample_data
Enter name of the destination directory: Demo1
Moved file: '/content/sample_data/anscombe.json' to '/content/Demo1/anscombe.json'
Moved file: '/content/sample_data/README.md' to '/content/Demo1/README.md'
Moved file: '/content/sample_data/File1' to '/content/Demo1/File1'
Moved file: '/content/sample_data/california_housing_train.csv' to '/content/Demo1/california_housing_train.csv'
Moved file: '/content/sample_data/mnist_train_small.csv' to '/content/Demo1/mnist_train_small.csv'
Moved file: '/content/sample_data/mnist_test.csv' to '/content/Demo1/mnist_test.csv'
Moved file: '/content/sample_data/california_housing_test.csv' to '/content/Demo1/california_housing_test.csv'
All files have been moved.
```

When you enter 6 as choice from menu then it calls the create file function and creates a file in the specified path.



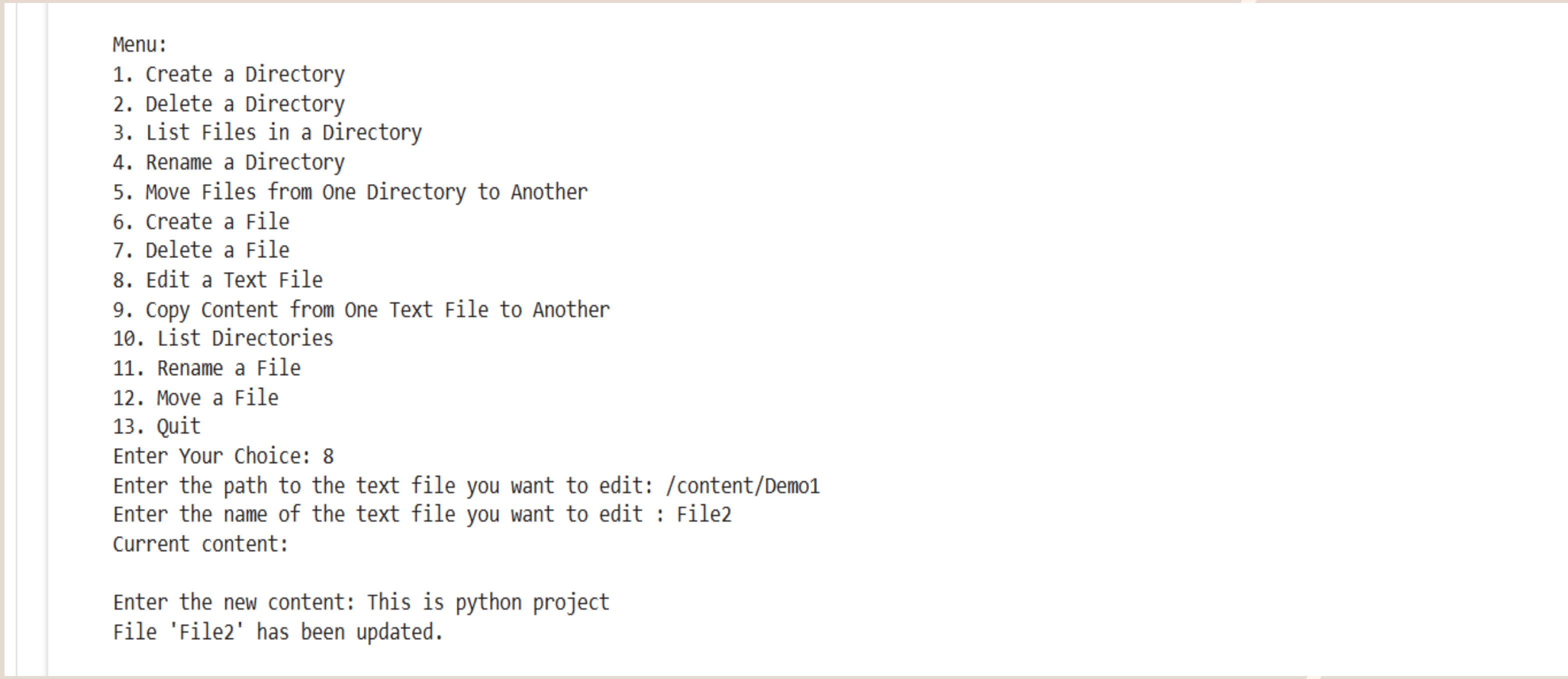
```
Menu:
1. Create a Directory
2. Delete a Directory
3. List Files in a Directory
4. Rename a Directory
5. Move Files from One Directory to Another
6. Create a File
7. Delete a File
8. Edit a Text File
9. Copy Content from One Text File to Another
10. List Directories
11. Rename a File
12. Move a File
13. Quit
Enter Your Choice: 6
Enter path where you want to create a file: /content/Demo1
Enter the name of your file: File2
File 'File2' has been successfully created at '/content/Demo1'.
```

When you enter 7 as choice from menu then it will call delete file function and then it deletes the file from the specified directory.



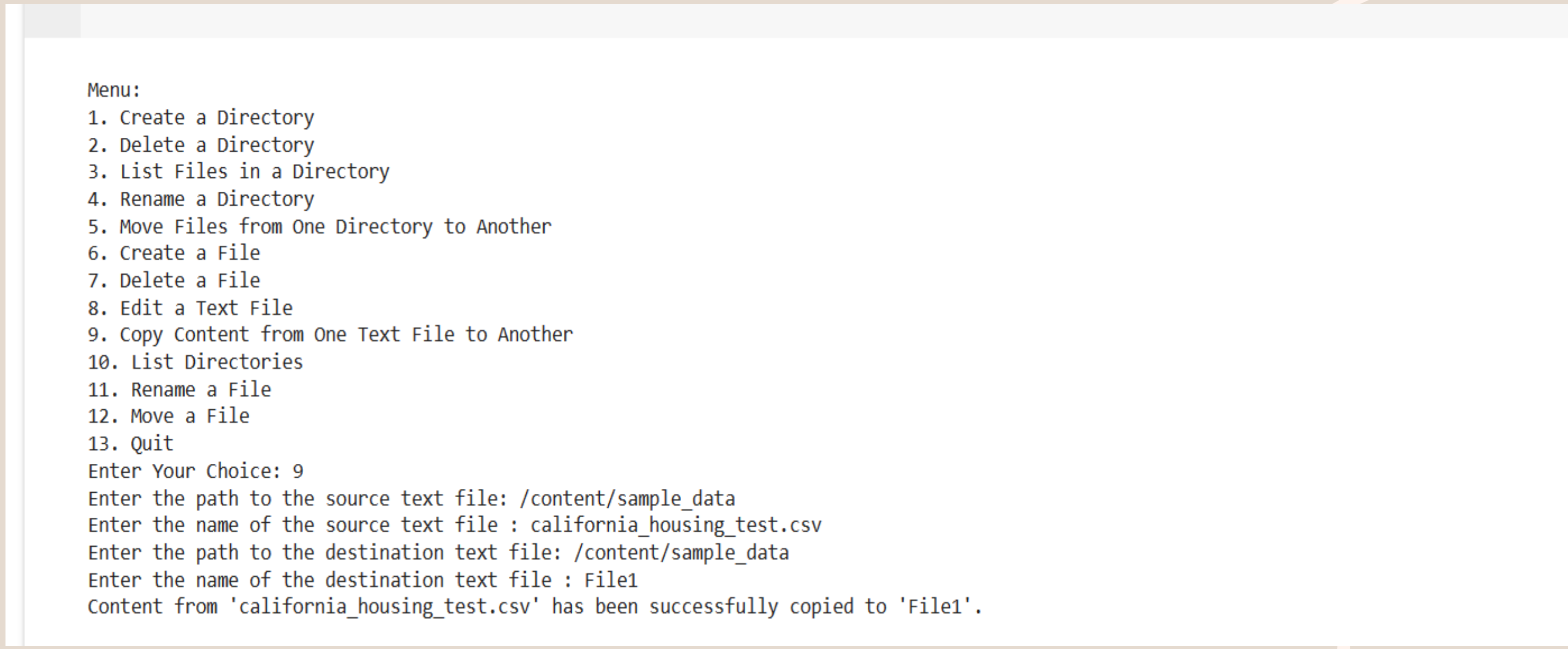
```
Menu:
1. Create a Directory
2. Delete a Directory
3. List Files in a Directory
4. Rename a Directory
5. Move Files from One Directory to Another
6. Create a File
7. Delete a File
8. Edit a Text File
9. Copy Content from One Text File to Another
10. List Directories
11. Rename a File
12. Move a File
13. Quit
Enter Your Choice: 7
Enter the path to the file you want to delete: /content/Demo1
Enter the name of the file you want to delete: File1
File 'File1' has been successfully deleted from '/content/Demo1'.
```

When you enter 8 as choice from menu then it calls edit text file function and it updates the file with the updated text.



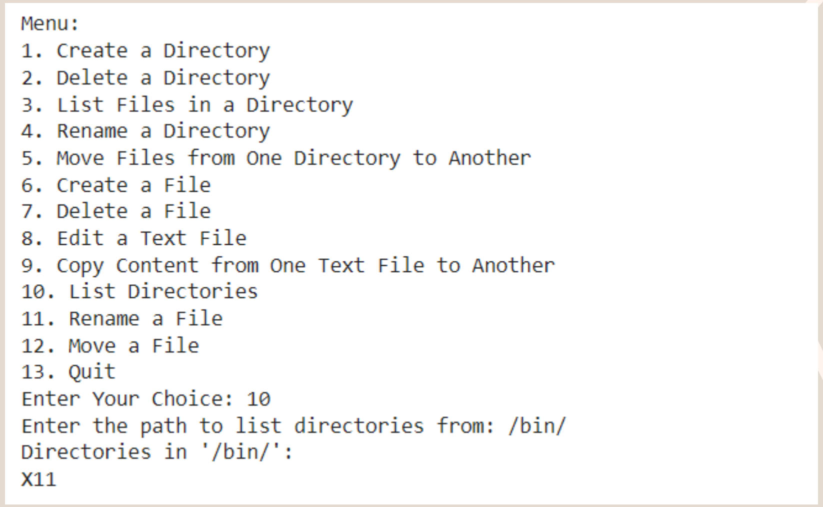
```
Menu:
1. Create a Directory
2. Delete a Directory
3. List Files in a Directory
4. Rename a Directory
5. Move Files from One Directory to Another
6. Create a File
7. Delete a File
8. Edit a Text File
9. Copy Content from One Text File to Another
10. List Directories
11. Rename a File
12. Move a File
13. Quit
Enter Your Choice: 8
Enter the path to the text file you want to edit: /content/Demo1
Enter the name of the text file you want to edit : File2
Current content:

Enter the new content: This is python project
File 'File2' has been updated.
```

When you enter 9 as choice from menu then it calls copy content from one file to another function and it copies the files from source directory to destination directory.



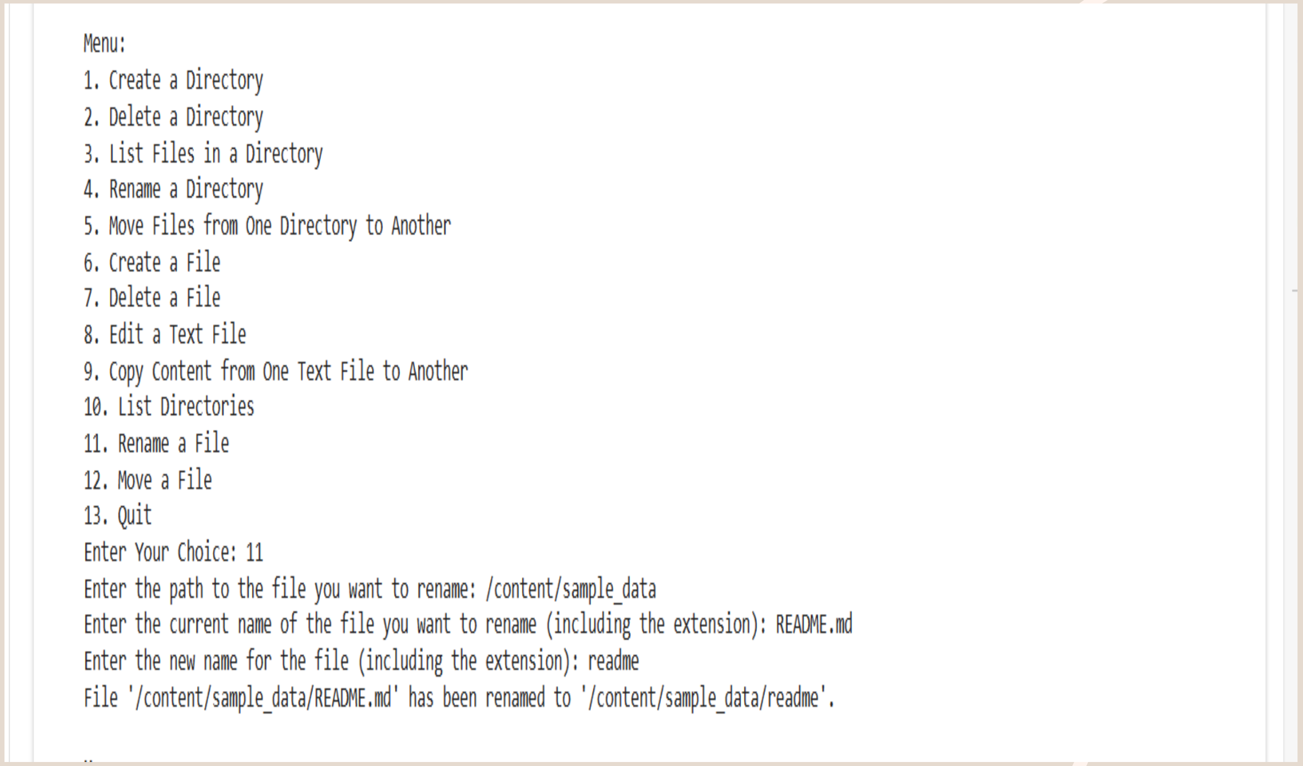
```
Menu:
1. Create a Directory
2. Delete a Directory
3. List Files in a Directory
4. Rename a Directory
5. Move Files from One Directory to Another
6. Create a File
7. Delete a File
8. Edit a Text File
9. Copy Content from One Text File to Another
10. List Directories
11. Rename a File
12. Move a File
13. Quit
Enter Your Choice: 9
Enter the path to the source text file: /content/sample_data
Enter the name of the source text file : california_housing_test.csv
Enter the path to the destination text file: /content/sample_data
Enter the name of the destination text file : File1
Content from 'california_housing_test.csv' has been successfully copied to 'File1'.
```

When you enter 10 as choice from menu then it calls list directories function and it displays all the directories from the given directory..



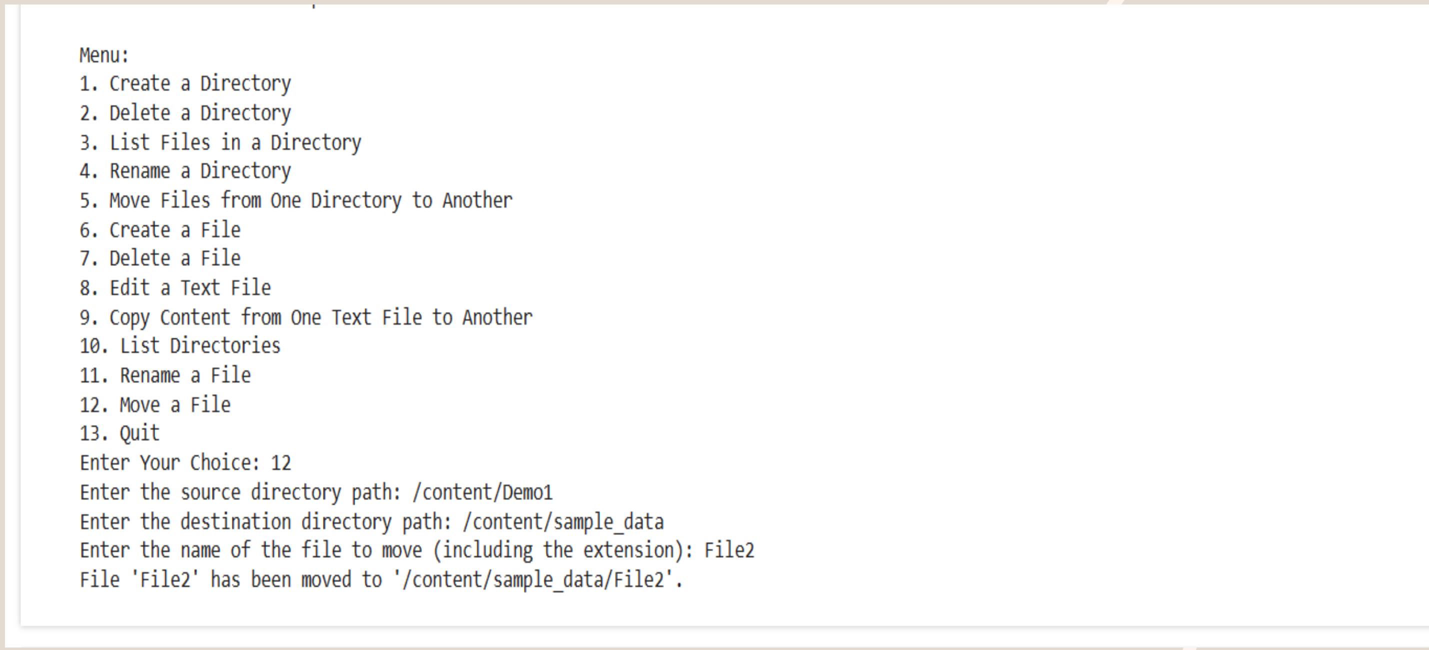
```
Menu:
1. Create a Directory
2. Delete a Directory
3. List Files in a Directory
4. Rename a Directory
5. Move Files from One Directory to Another
6. Create a File
7. Delete a File
8. Edit a Text File
9. Copy Content from One Text File to Another
10. List Directories
11. Rename a File
12. Move a File
13. Quit
Enter Your Choice: 10
Enter the path to list directories from: /bin/
Directories in '/bin/':
X11
```

When you enter 11 as choice from menu then it calls the rename file function and it changes the name of the file from old name to new name.



```
Menu:
1. Create a Directory
2. Delete a Directory
3. List Files in a Directory
4. Rename a Directory
5. Move Files from One Directory to Another
6. Create a File
7. Delete a File
8. Edit a Text File
9. Copy Content from One Text File to Another
10. List Directories
11. Rename a File
12. Move a File
13. Quit
Enter Your Choice: 11
Enter the path to the file you want to rename: /content/sample_data
Enter the current name of the file you want to rename (including the extension): README.md
Enter the new name for the file (including the extension): readme
File '/content/sample_data/README.md' has been renamed to '/content/sample_data/readme'.
```

When you enter 12 as choice from menu then it calls move a file function and it moves files from source to destination directory.



```
Menu:
1. Create a Directory
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4. Rename a Directory
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6. Create a File
7. Delete a File
8. Edit a Text File
9. Copy Content from One Text File to Another
10. List Directories
11. Rename a File
12. Move a File
13. Quit
Enter Your Choice: 12
Enter the source directory path: /content/Demo1
Enter the destination directory path: /content/sample_data
Enter the name of the file to move (including the extension): File2
File 'File2' has been moved to '/content/sample_data/File2'.
```
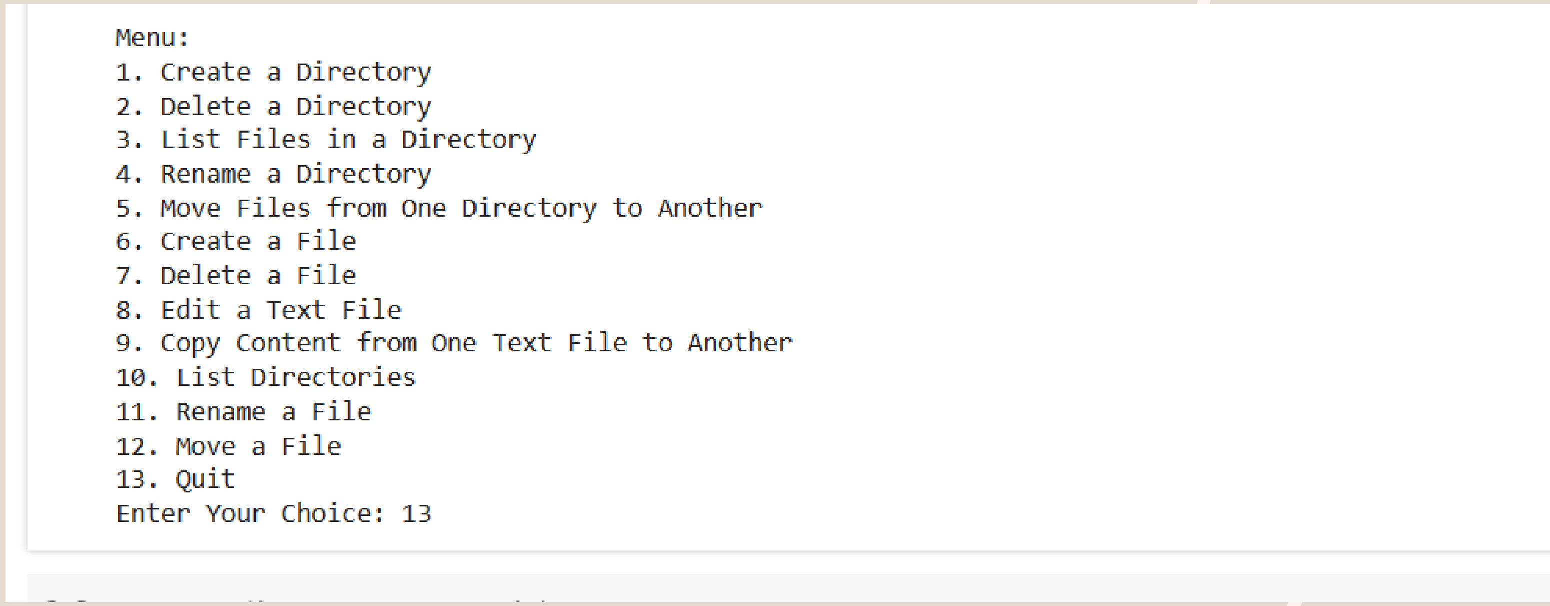

When you enter 13 as choice from menu then quits from the execution .



```
Menu:
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7. Delete a File
8. Edit a Text File
9. Copy Content from One Text File to Another
10. List Directories
11. Rename a File
12. Move a File
13. Quit
Enter Your Choice: 13
```

thank you