```
#creating a file
def create file(filename):
   # Open the file in write mode
   with open(filename, 'w') as file:
       # Write some content to the file
       file.write("Hello, World!\n")
       file.write("This is a file handling example in Python.\n")
       file.write("Enjoy coding!")
   print(f"{filename} created and content written successfully.")
if name == " main ":
   create file('example.txt')
#reading a created file
def read file(filename):
   # Open the file in read mode
   with open(filename, 'r') as file:
       content = file.read() # Read the entire content
       print("File content:")
       print(content)
if name == " main ":
   create file('example.txt')
   read file('example.txt')
#read the contents of the file
def read file(filename):
   try:
        # Open the file in read mode
       with open (filename, 'r') as file:
           content = file.read() # Read the entire content of the file
           print("File content:")
           print(content)
   except FileNotFoundError:
       print(f"The file '{filename}' does not exist.")
   except Exception as e:
       print(f"An error occurred: {e}")
if name == " main ":
    file to read = input("Enter the path of the file to read: ")
   read file(file to read)
```

```
#locate a file
import os
def locate_file(filename, search_path):
  # Traverse the directory
  for dirpath, dirnames, files in os.walk(search_path):
    if filename in files:
      print(f"File found: {os.path.join(dirpath, filename)}")
      return
  print(f"File '{filename}' not found in '{search_path}'.")
if __name__ == "__main__":
  filename_to_search = input("Enter the name of the file to search: ")
  directory_to_search = input("Enter the directory to search in: ")
  locate_file(filename_to_search, directory_to_search)
#program to move file in file handling
import shutil
import os
def move_file(source, destination):
  try:
    # Check if the source file exists
    if not os.path.isfile(source):
      print(f"Source file '{source}' does not exist.")
      return
    # Move the file
    shutil.move(source, destination)
    print(f"File '{source}' moved to '{destination}' successfully.")
  except Exception as e:
```

```
print(f"An error occurred: {e}")
if __name__ == "__main__":
  source_file = input("Enter the path of the file to move: ")
  destination_directory = input("Enter the destination directory: ")
  # Construct the full destination path
  destination_file = os.path.join(destination_directory, os.path.basename(source_file))
  move_file(source_file, destination_file)
#to delete python program in file handling
import os
def delete_file(file_path):
  try:
    # Check if the file exists
    if os.path.isfile(file_path):
      os.remove(file_path) # Delete the file
      print(f"File '{file_path}' deleted successfully.")
    else:
      print(f"File '{file_path}' does not exist.")
  except Exception as e:
    print(f"An error occurred: {e}")
if __name__ == "__main__":
  file_to_delete = input("Enter the path of the file to delete: ")
  delete_file(file_to_delete)
```

```
Socket programming
import socket
def start_server():
 # Create a socket object
 server_socket = socket.socket(socket.AF_INET, socket.SOCK_STREAM)
 # Bind the socket to an address and port
 server_socket.bind(('localhost', 12345))
 # Listen for incoming connections
 server_socket.listen(5)
 print("Server listening on port 12345...")
 while True:
   # Accept a new connection
   client_socket, addr = server_socket.accept()
   print(f"Connection from {addr} has been established!")
   # Send a welcome message to the client
   client_socket.sendall(b"Hello, Client!")
   # Close the client socket
   client_socket.close()
```

```
if __name__ == "__main__":
 start_server()
#client
import socket
def start_client():
 # Create a socket object
 client_socket = socket.socket(socket.AF_INET, socket.SOCK_STREAM)
 # Connect to the server
 client_socket.connect(('localhost', 12345))
 # Receive data from the server
 response = client_socket.recv(1024)
 print("Received from server:", response.decode())
 # Close the socket
 client_socket.close()
if __name__ == "__main__":
 start_client()
```