## 3. SOCKET PROGRAMMING –SEND TEXT MESSAGE

Write a program to create a server that listens to port 53 using stream sockets. Write a simple client program to connect to the server. Send a simple text message "Hello" from the client to the server and the server to the client and close the connection

## server.py

```
import socket
def start server():
   server socket = socket.socket(socket.AF INET, socket.SOCK STREAM)
   server address = ('',53)
   server socket.bind(server address)
   server socket.listen(1)
   print("server listening on port 53")
   while True:
      connection, client address = server socket.accept()
      try:
         print("Connection established with", client address)
         data = connection.recv(1024)
         if data:
            print("Recieved:", data.decode('UTF-8'))
            message="Hello"
            connection.sendall(message.encode('UTF-8'))
      finally:
         connection.close()
         print("connection closed")
if name ==' main ':
   start server()
```

## client.py

```
import socket
def start_client():
   client_socket = socket.socket(socket.AF_INET, socket.SOCK_STREAM)
   server_address = ('127.0.0.1',53)
   try:
      client socket.connect(server address)
      print("connected to server in port 53")
     message ="Hello"
      client_socket.sendall(message.encode('utf-8'))
     print("sent:", message)
      data = client socket.recv(1024)
      print("Recieved:", data.decode("utf-8"))
   finally:
      client_socket.close()
     print("connection closed")
if name ==' main ':
  start_client()
```

