#.........................................................................4b file..................................................................................

**…………………………………………………………………Server……………………………………………………………………..**

*import* socket  
port = 50000  
s = socket.socket()  
host = ""  
s.bind((host, port))  
s.listen(5)  
  
print('Server listening....')  
  
  
*while True*:  
 conn, addr = s.accept()  
 print ('Got connection from', addr)  
 data = conn.recv(1024)  
 print('Server received', repr(data))  
  
 filename='client.py'  
 f = open(filename,'rb')  
 l = f.read(1024)  
 *while* (l):  
 conn.send(l)  
 print('Sent ',repr(l))  
 l = f.read(1024)  
 f.close()  
  
 print('Done sending')  
 conn.send('Thank you for connecting'.encode())  
 conn.close()

**…………………………………………………………………….Client……..…………………………………………………….**

*import* socket  
  
s = socket.socket()  
host = socket.gethostname()  
port = 50000  
  
s.connect((host, port))  
s.send("Hello server!".encode())  
  
*with* open('received\_file', 'wb') *as* f:  
 print ('file opened')  
 *while True*:  
 print('receiving data...')  
 data = s.recv(1024)  
 print('data=%s', (data))  
 *if not* data:  
 *break* f.write(data)  
  
f.close()  
print('Successfully get the file')  
s.close()  
print('connection closed')

//////////////////////////////////

Java

Server

import java.io.BufferedInputStream;

import java.io.File;

import java.io.FileInputStream;

import java.io.IOException;

import java.io.OutputStream;

import java.net.ServerSocket;

import java.net.Socket;

public class SimpleFileServer {

public final static int SOCKET\_PORT = 13267; // you may change this

public final static String FILE\_TO\_SEND = "c:/temp/source.pdf"; // you may change this

public static void main (String [] args ) throws IOException {

FileInputStream fis = null;

BufferedInputStream bis = null;

OutputStream os = null;

ServerSocket servsock = null;

Socket sock = null;

try {

servsock = new ServerSocket(SOCKET\_PORT);

while (true) {

System.out.println("Waiting...");

try {

sock = servsock.accept();

System.out.println("Accepted connection : " + sock);

// send file

File myFile = new File (FILE\_TO\_SEND);

byte [] mybytearray = new byte [(int)myFile.length()];

fis = new FileInputStream(myFile);

bis = new BufferedInputStream(fis);

bis.read(mybytearray,0,mybytearray.length);

os = sock.getOutputStream();

System.out.println("Sending " + FILE\_TO\_SEND + "(" + mybytearray.length + " bytes)");

os.write(mybytearray,0,mybytearray.length);

os.flush();

System.out.println("Done.");

}

finally {

if (bis != null) bis.close();

if (os != null) os.close();

if (sock!=null) sock.close();

}

}

}

finally {

if (servsock != null) servsock.close();

}

}

}

Client

import java.io.BufferedOutputStream;

import java.io.FileOutputStream;

import java.io.IOException;

import java.io.InputStream;

import java.net.Socket;

public class SimpleFileClient {

public final static int SOCKET\_PORT = 13267; // you may change this

public final static String SERVER = "127.0.0.1"; // localhost

public final static String

FILE\_TO\_RECEIVED = "c:/temp/source-downloaded.pdf"; // you may change this, I give a

// different name because i don't want to

// overwrite the one used by server...

public final static int FILE\_SIZE = 6022386; // file size temporary hard coded

// should bigger than the file to be downloaded

public static void main (String [] args ) throws IOException {

int bytesRead;

int current = 0;

FileOutputStream fos = null;

BufferedOutputStream bos = null;

Socket sock = null;

try {

sock = new Socket(SERVER, SOCKET\_PORT);

System.out.println("Connecting...");

// receive file

byte [] mybytearray = new byte [FILE\_SIZE];

InputStream is = sock.getInputStream();

fos = new FileOutputStream(FILE\_TO\_RECEIVED);

bos = new BufferedOutputStream(fos);

bytesRead = is.read(mybytearray,0,mybytearray.length);

current = bytesRead;

do {

bytesRead =

is.read(mybytearray, current, (mybytearray.length-current));

if(bytesRead >= 0) current += bytesRead;

} while(bytesRead > -1);

bos.write(mybytearray, 0 , current);

bos.flush();

System.out.println("File " + FILE\_TO\_RECEIVED

+ " downloaded (" + current + " bytes read)");

}

finally {

if (fos != null) fos.close();

if (bos != null) bos.close();

if (sock != null) sock.close();

}

}

}

s