檔案:client.py

修改前

```
os.system('pause') # 按性思键经探
hostname = '127.0.0.1'
port = 5288
addr = (hostname, port)
clientsock = socket.socket(socket.AF_INET, socket.SOCK_STREAM)
clientsock.connect(addr)
watter = random.randint(0, 150)
weight = random.randint(0, 100)
data = ","+str(watter)+","+str(weight)
msg = data
clientsock.send(msg.encode())
server_respose = str(clientsock.recv(1024), encoding='utf-8')
print('Server response:', server_respose)
clientsock.close()
```

修改後

```
class Sever:
   def __init__(self,hostname="127.0.0.1",port=5288,encoding="utf-8"):
       self.hostname = hostname
       self.port = port
       self.encoding = encoding
   def sendData(self):
       watter = random.randint(0,150)
       weight = random.randint(0,100)
       data = ","+str(watter)+","+str(weight)
       return data
while True:
   os.system('pause')#按任意键继续
   sever = Sever("127.0.0.1",5288,"utf-8")
   addr = (sever.hostname,sever.port)
   clientsock = socket.socket(socket.AF_INET, socket.SOCK_STREAM)
   clientsock.connect(addr)
   msg = sever.sendData()
   clientsock.send(msg.encode())
   server_respose = str(clientsock.recv(1024), encoding=sever.encoding)
   print('Server response:', server_respose)
   clientsock.close()
```

檔案:sever.py

修改前

```
hostname = '127.0.0.1'
port = 5288
addr = (hostname,port)
srv = socket.socket()
srv.bind(addr)
srv.listen(5)
print("waitting connect")
def connectDB_insertData(userName,userInput):
        localtime = time.localtime()
        result = time.strftime("%Y-%m-%d %I:%M:%S %p", localtime)
        connection = mysql.connector.connect(
            host='localhost',
            database='pet',
            user='root',
            password='root'
        if connection.is_connected():
            print("資料庫連接成功")
sql = '''INSERT INTO pet (watter, weight,date) VALUES (%s,%s, %s)'''
            val = (userName, userInput, result)
            cursor = connection.cursor()
            cursor.execute(sql,val)
            connection.commit()
        print("資料庫連接失敗:", e)
    connect_socket,client_addr = srv.accept()
    print(client_addr)
    recevent = connect_socket.recv(1024)
    print(str(recevent,encoding='utf-8'))
    connect_socket.send(bytes("message:"+str(recevent) ,encoding='utf-8'))
    rpiData = str(recevent).split(",")
    print(rpiData)
    connectDB_insertData(rpiData[1],rpiData[2])
    connect_socket.close()
```

```
class Client:
   def __init__(self, hostname="127.0.0.1", port=5288, encoding="utf-8", listen=5):
       self.hostname = hostname
       self.port = port
       self.encoding = encoding
       self.listen = listen
class Sql:
   def __init__(self, host='localhost', database='pet', user='root', password='root'):
       self.host = host
       self.database = database
       self.user = user
       self.password = password
   def connectDB_insertData(self, watterData="None", weightData="None"):
           localtime = time.localtime()
           result = time.strftime("%Y-%m-%d %I:%M:%S %p", localtime)
           connection = mysql.connector.connect(
               host=self.host,
               database=self.database,
               user=self.user,
               password=self.password
           if connection.is_connected():
               print("資料庫連接成功")
               sql = '''INSERT INTO pet (watter, weight,date) VALUES (%s,%s, %s)'''
               val = (watterData, weightData, result)
               cursor = connection.cursor()
               cursor.execute(sql, val)
               connection.commit()
               print("資料上傳成功")
       except Error as e:
           print("資料庫連接失敗:", e)
```

```
while True:
   client = Client("127.0.0.1", 5288, "utf-8", 5)
   addr = (client.hostname, client.port)
   srv = socket.socket()
   srv.bind(addr)
   srv.listen(client.listen)
   print("waitting connect")
   connect_socket, client_addr = srv.accept()
    print(client_addr)
   recevent = connect_socket.recv(1024)
   connect socket.send(
       bytes("message:"+str(recevent), encoding=client.encoding))
   rpiData = str(recevent).split(",")
   print(rpiData)
   sql = Sql('localhost', 'pet', 'root', 'root')
    sql.connectDB_insertData(rpiData[1], rpiData[2])
   connect_socket.close()
   break
```