ارائه مدل `key-value` **و پیاده سازی اپلیکیشن**

در این برنامه از زبان برنامه نویسی پایتون به صورت متنی استفاده شده است و اطلاعات در پایگاه داده `redis` **ثبت می شود**

برای این منظور از دو کتابخانه `json` **و** `redis` **استفاده کردیم**

```python
import json
import redis
r = redis.Redis(host="localhost", port=6379, db=0)
def register():
    lcontact = []
    fname = input("Plz enter your name : ")
    lname = input("Plz enter your family : ")
    tel = int(input("Plz enter your phone : "))
    email = input("Plz enter your Email : ")
    passwd = input("Plz enter your password : ")
    info_user = {}
    info_user["fname"] = fname
    info_user["lname"] = lname
    info_user["tel"] = tel
    info_user["email"] = email
    info_user["passwd"] = passwd
    info_user["lcontact"] =lcontact
    vlu = json.dumps(info_user)
    r.set(tel, vlu)
    r.save()
    print("Tanks ")
    return
def add_contact(tel) :
    r.keys()
    k=r.get(tel)
    value=json.loads(k)
    cname = input("Enter contact name  : ")
    ctel = int(input("Enter contact phone : "))
    cusername = input("Enter contact us_name : ")
    value["lcontact"].append( {"cname" :
cname,"ctel":ctel,"cuser_name": cusername,"user_tel"
:tel,})
```

```python
        vlue=json.dumps(value)
        r.set(tel,vlue)
        r.save()
        return
def send_msg(tel):
        txt=[]
        print("□ list of cantact □")
        key = r.keys(tel)
        for k in key:
            value = r.get(k)
            contacts=json.loads(value)["lcontact"]
            for c in contacts:
                print(c["cname"],":",c["ctel"])
        print("----------------------------")
        number=int(input("enter phone number :"))
        print("enter text □")
        while ("true"):
            text=input()
            if text== ".":
                break
            txt.append(text)
        print(txt)
def menu(phone):
        while ("true") :
            print("1. Add contat    ")
            print("2. Send message ")
            print("3. Read message ")
            print("4. Exit ")
            tel=phone
            n = int(input(" chosse of menu :"))
            if n == 1 :
                add_contact(tel)
            elif n == 2 :
                send_msg(tel)
            #elif n == 3 :
             #   read_msg()
            else: return

while "true":
    print("1 ✈ Log In")
    print("2 ✈ Register")

    n = int(input("Wellcame  Please choose of menu :
```

```python
"))
    if n == 1:
        phone = int(input("Please enter phone : "))
        passwd = input("Please enter password :")
        key = r.keys(phone)

        for k in key:
            value = r.get(k)
            phne = json.loads(value)["tel"]
            if phne == phone :

                paswd = json.loads(value)["passwd"]
                if paswd == passwd:
                    print("Welcame")
                    menu(phone)
                else:print("Sorry!! the username or
password is incorrect ")
            else:print(" □ No username! Please
register")
    if n == 2:
        register()
```
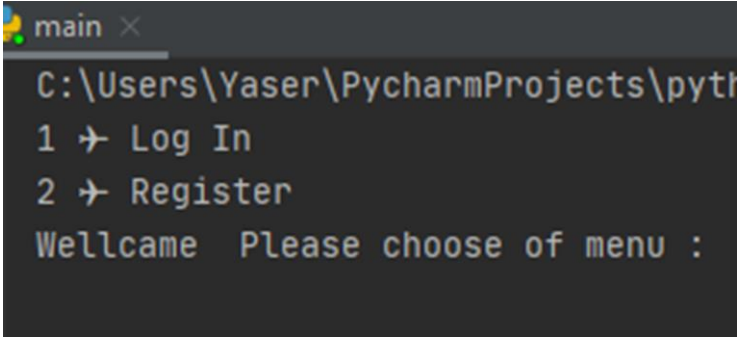
قسمت اول : ورود به اپلیکیشن

```python
while "true":
    print("1 ✈ Log In")
    print("2 ✈ Register")

    n = int(input("Wellcame  Please choose of menu : "))
    if n == 1:
        phone = int(input("Please enter phone : "))
        passwd = input("Please enter password :")
        key = r.keys(phone)

        for k in key:
            value = r.get(k)
            phne = json.loads(value)["tel"]
            if phne == phone :

                paswd = json.loads(value)["passwd"]
                if paswd == passwd:
                    print("Welcame")
                    menu(phone)
                else:print("Sorry!! the username or password is incorrect ")
            else:print(" ☐ No username! Please register")
    if n == 2:
        register()
```
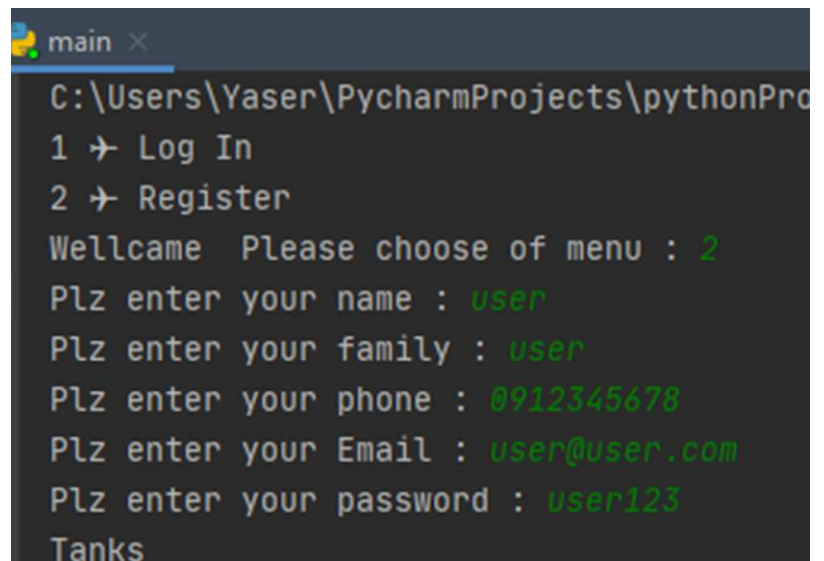
```
main ×
C:\Users\Yaser\PycharmProjects\pyth
1 ✈ Log In
2 ✈ Register
Wellcame  Please choose of menu :
```

قسمت دوم: ثبت نام کاربر: در این قسمت تابعی بنام register ایجاد کردیم

```python
def register():
    lcontact = []
    fname = input("Plz enter your name : ")
    lname = input("Plz enter your family : ")
    tel = int(input("Plz enter your phone : "))
    email = input("Plz enter your Email : ")
    passwd = input("Plz enter your password : ")
    info_user = {}
    info_user["fname"] = fname
    info_user["lname"] = lname
    info_user["tel"] = tel
    info_user["email"] = email
    info_user["passwd"] = passwd
    info_user["lcontact"] = lcontact
    vlu = json.dumps(info_user)
    r.set(tel, vlu)
    r.save()
    print("Tanks ")
    return
```

```
main ×
C:\Users\Yaser\PycharmProjects\pythonPro
1 ✈ Log In
2 ✈ Register
Wellcame  Please choose of menu : 2
Plz enter your name : user
Plz enter your family : user
Plz enter your phone : 0912345678
Plz enter your Email : user@user.com
Plz enter your password : user123
Tanks
```

```python
def add_contact(tel) :
    r.keys()
    k=r.get(tel)
    value=json.loads(k)
    cname = input("Enter contact name  : ")
    ctel = int(input("Enter contact phone : "))
    cusername = input("Enter contact us_name : ")
    value["lcontact"].append( {"cname" :
cname,"ctel":ctel,"cuser_name": cusername,"user_tel"
:tel,})
    vlue=json.dumps(value)
    r.set(tel,vlue)
    r.save()
    return
```

```
Enter contact name  : alireza
Enter contact phone : 0910000000
Enter contact us_name : alireza_c
```

قـسمت چهـارم : لـیست مـخاطب

```python
    print("▼ list of cantact ▼")
    key = r.keys(tel)
    for k in key:
        value = r.get(k)
        contacts=json.loads(value)["lcontact"]
        for c in contacts:
            print(c["cname"],":",c["ctel"])
    print("--------------------------")
```

```
▼ list of cantact ▼
ali : 7474
mahshid : 2252
```

تهیه کننده : مهشید مولایی ، ارشد نرم افزار