

```
C:\Users\wdcas\AppData\Local\Programs\Python\Python37\python.exe
Server: Connected to the Server!
LOGIN sally sally22
Server: SUCCESS
SOLVE -r 1
Server: Square's perimeter is 4.0 and area is 1.0
SOLVE -c 2
Server: Circle's circumference is 12.57 and area is 12.57
SOLVE -r 2 3
Server: Rectangle's perimeter is 10.0 and area is 6.0
SOLVE -c
Server: 301 Error Format Type
SOLVE
Server: 301 Error Format Type
SOLVE -
Server: 301 Invalid SOLVE command
```

```
C:\Users\wdcas\AppData\Local\Programs\Python\Python37\python.exe
Loading logins
0
rootroot22
johnjohn22
sallysally22
qiangqiang22
Starting Server . . .
connected with ('127.0.0.1', 57595)
ECHO: LOGIN sally sally22
ECHO: SOLVE -r 1
ECHO: SOLVE -c 2
ECHO: SOLVE -r 2 3
ECHO: SOLVE -c
ECHO: SOLVE
ECHO: SOLVE -
```

LIST

Server: sally

SOLVE -r 1

Square's perimeter is 4.0 and area is 1.0

SOLVE -c 2

Circle's circumference is 12.57 and area is 12.57

SOLVE -r 2 3

Rectangle's perimeter is 10.0 and area is 6.0

SOLVE -c

SOLVE

SOLVE -

LIST -all

Server: ERROR: Must be root user

C:\Users\wdcas\AppData\Local\Programs\Python\Python37\python.exe

Loading logins

0

rootroot22

johnjohn22

sallysally22

qiangqiang22

Starting Server . . .

connected with ('127.0.0.1', 57595)

ECHO: LOGIN sally sally22

ECHO: SOLVE -r 1

ECHO: SOLVE -c 2

ECHO: SOLVE -r 2 3

ECHO: SOLVE -c

ECHO: SOLVE

ECHO: SOLVE -

ECHO: LIST

ECHO: LIST -all

200001

Server: 200 OK

SHUTDOWN

Server: Must be root

```
C:\Users\wdcas\AppData\Local\Programs\Python\Python37\python.exe  
Server: Connected to the Server!  
LOGIN root root22  
Server: SUCCESS
```

```
logout  
ECHO: SHUTDOWN  
Must be root  
connected with ('127.0.0.1', 57636)  
connected with ('127.0.0.1', 57637)  
ECHO: LOGIN root root22
```

```
LIST  
Server: root  
SOLVE -r 1  
Square's perimeter is 4.0 and area is 1.0  
SOLVE -r 2 3  
SOLVE -r 2 2  
SOLVE -r 1 w  
SOLVE -r 1 2  
SOLVE -r 2 3  
Rectangle's perimeter is 10.0 and area is 6.0  
SOLVE -r 2  
Square's perimeter is 8.0 and area is 4.0
```

LIST -all

Server: root

SOLVE -r 1

Square's perimeter is 4.0 and area is 1.0

SOLVE -r 2 3

SOLVE -r 2 2

SOLVE -r 1 w

SOLVE -r 1 2

SOLVE -r 2 3

Rectangle's perimeter is 10.0 and area is 6.0

SOLVE -r 2

Square's perimeter is 8.0 and area is 4.0

john

SOLVE -c 5

Circle's circumference is 31.42 and area is 78.54

SOLVE -r 3

Square's perimeter is 12.0 and area is 9.0

SOLVE -r 1 1

SOLVE -r 2 3

sally

SOLVE -r 1

Square's perimeter is 4.0 and area is 1.0

SOLVE -c 2

Circle's circumference is 12.57 and area is 12.57

SOLVE -r 2 3

Rectangle's perimeter is 10.0 and area is 6.0

SOLVE -c

SOLVE

SOLVE -

qiang

No interactions yet

connected with ('127.0.0.1', 57637)

ECHO: LOGIN root root22

ECHO: LIST

ECHO: LIST -all

SHUTDOWN

Server: 200 OK

```
ECHO: SHUTDOWN
shutdown
Shutting Down Server . . .

Process finished with exit code 0
```

```
C:\Users\wdcas\AppData\Local\Programs\Python\Python37\python.exe
Loading logins
0
rootroot22
johnjohn22
sallysally22
qiangqiang22
Starting Server . . .
connected with ('127.0.0.1', 61374)
```

```
C:\Users\wdcas\AppData\Local\Programs\Python\Python37\python.exe
Server: Connected to the Server!
```

```
C:\Users\wdcas\AppData\Local\Programs\Python\Python37\python.exe
Server: Connected to the Server!
LOGIN dude dude111
Server: FAILURE: pls enter correct credentials
LOGIN john john22
Server: SUCCESS
```

```
C:\Users\wdcas\AppData\Local\Programs\Python\Python37\python.exe
Loading logins
0
rootroot22
johnjohn22
sallysally22
qiangqiang22
Starting Server . . .
connected with ('127.0.0.1', 61374)
ECHO: LOGIN dude dude111
ECHO: LOGIN john john22
```