RSA-Client

```
import socket
import rsa
client_socket=socket.socket(socket.AF_INET,socket.SOCK_STREAM)
host=socket.gethostname() port=9999
client_socket.connect((host,port))
public_key_data=client_socket.recv(1024)
public_key=rsa.PublicKey.load_pkcs1(public_key_data)
message=input('Enter Message:')
encrypted_message=rsa.encrypt(message.encode('u -8'),public_key)
print("\nEncrypted message id:\n",encrypted_message)
print("\nMessage is send to Receiver")
client_socket.send(encrypted_message)
client_socket.close()
```

RSA-Server:

```
import socket import
rsa
(public_key, private_key) = rsa.newkeys(512)
server_socket=socket.socket(socket.AF_INET,socket.SOCK_STREAM)
host=socket.gethostname()
port=9999
server_socket.bind((host,port))
server_socket.listen(5) print("Server is wai ng for
client to connect...\n")
(client_socket,client_address)=server_socket.accept()
print("Connec on from :\n",str(client_address))
client_socket.send(public_key.save_pkcs1())
encrypted_message=client_socket.recv(1024)
print("\nEncrypted message id:\n",encrypted_message)
message=rsa.decrypt(encrypted_message,private_key)
print("\nReceived message from client:\n",message)
client_socket.close()
```

Outputs:



