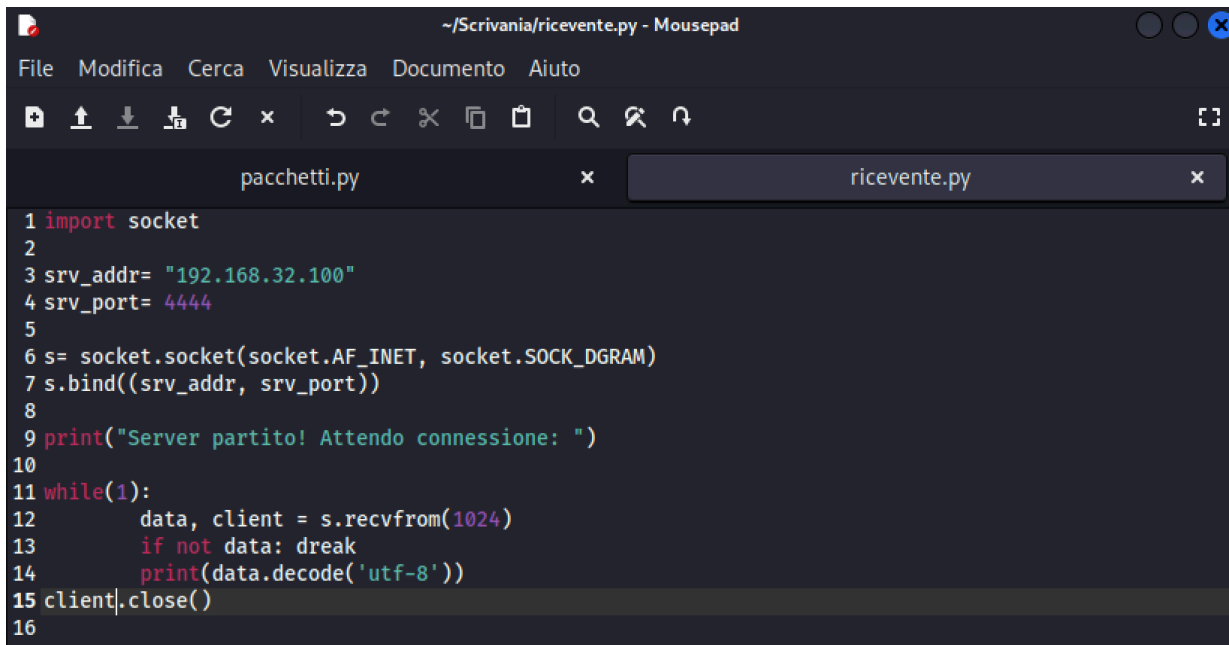


2. Pre-requisiti: Programmazione per Hacker con Python pt. 1

-CREAZIONE SERVER PER RICEZIONE PACCHETTI

Ho creato un socket UDP per poter eseguire il programma sulla stessa macchina di Kali.

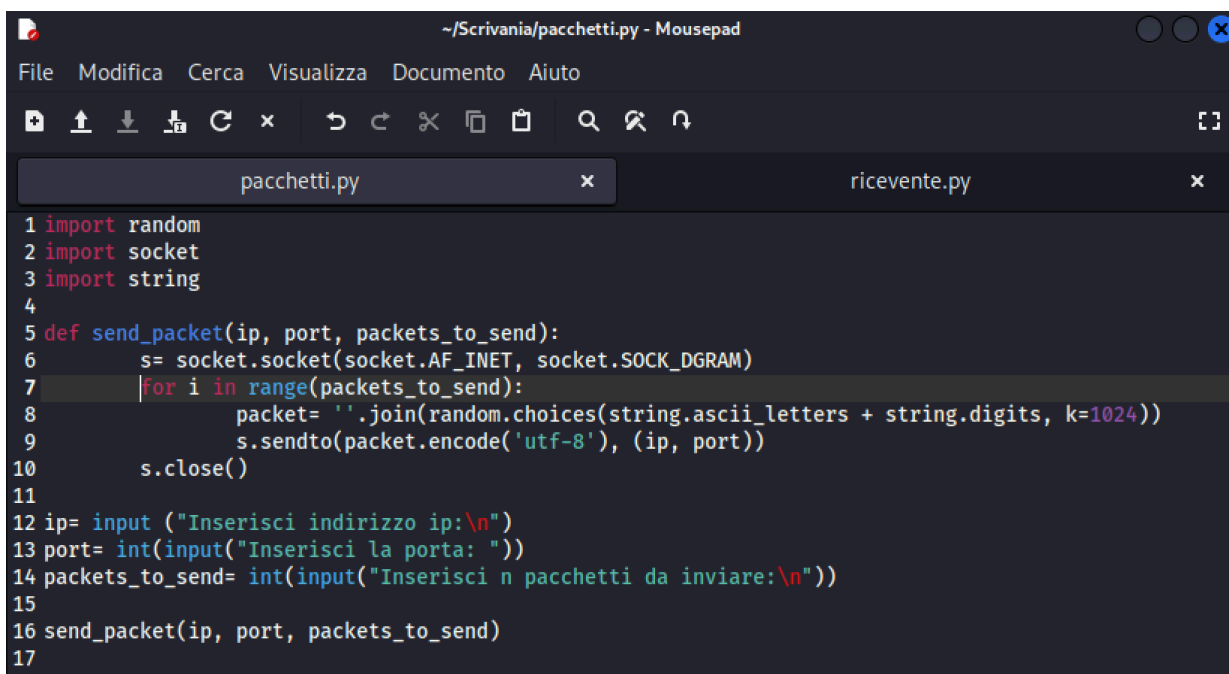


The screenshot shows a Mousepad window titled "~/.Scrivania/ricevente.py - Mousepad". The window has a menu bar with "File", "Modifica", "Cerca", "Visualizza", "Documento", and "Aiuto". Below the menu bar is a toolbar with various icons. The code editor shows two tabs: "pacchetti.py" and "ricevente.py". The "ricevente.py" tab is active, displaying the following Python code:

```
1 import socket
2
3 srv_addr= "192.168.32.100"
4 srv_port= 4444
5
6 s= socket.socket(socket.AF_INET, socket.SOCK_DGRAM)
7 s.bind((srv_addr, srv_port))
8
9 print("Server partito! Attendo connessione: ")
10
11 while(1):
12     data, client = s.recvfrom(1024)
13     if not data: break
14     print(data.decode('utf-8'))
15 client.close()
16
```

-CREAZIONE DEL PROGRAMMA

Ho creato i pacchetti con il modello random e inserita l'interfaccia per inserire le informazioni del client.



The screenshot shows a Mousepad window titled "~/.Scrivania/pacchetti.py - Mousepad". The window has a menu bar with "File", "Modifica", "Cerca", "Visualizza", "Documento", and "Aiuto". Below the menu bar is a toolbar with various icons. The code editor shows two tabs: "pacchetti.py" and "ricevente.py". The "pacchetti.py" tab is active, displaying the following Python code:

```
1 import random
2 import socket
3 import string
4
5 def send_packet(ip, port, packets_to_send):
6     s= socket.socket(socket.AF_INET, socket.SOCK_DGRAM)
7     for i in range(packets_to_send):
8         packet= ''.join(random.choices(string.ascii_letters + string.digits, k=1024))
9         s.sendto(packet.encode('utf-8'), (ip, port))
10    s.close()
11
12 ip= input ("Inserisci indirizzo ip:\n")
13 port= int(input("Inserisci la porta: "))
14 packets_to_send= int(input("Inserisci n pacchetti da inviare:\n"))
15
16 send_packet(ip, port, packets_to_send)
17
```

-ESECUZIONE DEL PROGRAMMA DI INVIO PACCHETTI

```
kali@kali: ~/Scrivania
File Azioni Modifica Visualizza Aiuto

(kali@kali)-[~/Scrivania]
$ python pacchetti.py
Inserisci indirizzo ip:
192.168.32.100
Inserisci la porta: 4444
Inserisci n pacchetti da inviare:
4

(kali@kali)-[~/Scrivania]
$
```

-RICEZIONE DEL SERVER DEI PACCHETTI

```
kali@kali: ~/Scrivania
File Azioni Modifica Visualizza Aiuto

(kali@kali)-[~/Scrivania]
$ python ricevente.py
Server partito! Attendo connessione:
foDl17L1T1i0nuP8KW6FjEl44KppCTRL2koVa6F0rAhDmeBlCLP6HKCxcgZF1M5Nc
4IeN0DBYKG0B6BtHjJieHrxyXdPXZnSX7yqi1izvTHwLrmmebCre2SEUnl5jdTF
fuh6Rum6JNCd5rYhyyUIRfCG4s0LoK35MwgjW1IFjGalKgEftAjZ05ms1hfWn3oK
q0poYSOLCntKjFHGyg9fdaBBvKW2dUBBEa0N7mdKWtAGQA0IFbvH6rKzeRE8mstt
JEONQ9lPT6dYDjWtqspuao0BoveZk0tV8lQSnBvtyFfwafFaJNwaZ6IIFeFoB8uI
kttnk9rsnvcgcooZcSolizMB6RZrJnaAEg41m0LzHgRqDLtqWZdVWPj5snmlsKct
GGKmKlksFdMwQMqeteLYWfnioJ27UzZLLMDVaRCqiULCfBoQ6njXHm1KFFhqImQ1
ht3y7M7GjaJgSntq3Pxq3tyOx1Kb2jDakP5PctPt1goFhQ0GYXaIDLndieMXqeyU
CoqlEYDM5FMH0j1vA1Ug4mscaWTLsXzt0ursz2Bw0eECfVjX5h4dFWJws1TCN0JU
DKbH4Z2GgJwxHcQBCjH5Nzaa58LDgYb73kXQMdmcoJoyQasUouUkKcNpvNep4ir
7snA3qt9fZxdzSq0GIqF0TumvERatj4WIamEPsDWDaQVqC3qk0AGpEYV87JevpB
mwcBCwhxtLbi1lT6Ff01q6MpCfTUjGBxZ2ReMrbaizm5Tg09bVQzXdoAU91ibKbb
1BFkccz7e2UPQ0jayA0glbWckRkj4yxQzsDTkIqK3i1u5fYEmN8VMP5JTV3pc3UO
9A0lcyhmgkqGYch0AtrSjbbrojo7doukuKtTLEESerLYvNP7ZsvkBf9cl0aoUvJ
EMqnRMmB0mgv4o3frnLRKcnVo2cQCeQri4biRnFzn90ILZ3KjOMphWg2YYvDCovn
e0J9ha2iMVo1LZKemuPNXy5lsfQCdv6hOXGL8Pl9c3r9KXRP33XA9vJ9q76sYL7
zH9iKlH2tmLWTZwie1lTu8QqGRSntqMsPu5QvXFZH1SqnFv4CvpwgIr4IDMkeLiA
OzPsMjqZb8Sf29ARcp6MAb046CxdCyjoUHZv3tBTR9Z1XVqjrgjpfmRIVSfMjUX0
r3j3N4YBBw1e6Q5EF0Rjej0DJLrYrmksDPnd6aNWIEJY2TYIVrePu0BfF8aEVIya
cdZV8wFtnounWa8TJZAWSKmgfZoBAQ9Hq20ADwsGfADG76USoubGuxFZVmAjwoCt
W8HXuGehd56rMWXNeWrpuiTHXM7RP6Ar0nRiTnf8tTfLJV6k0jLonfVPc3ipQA6u
VQMzn9Rj3TSDMQAxzoczo4120z31ZMDgNvcHR4z8eNk69jfuNHnVzMKHoiAydX8l
0YwfdZXdBrondnWQ7coY8tIICmHrHP91mfGeyaFEnR2mnx70NQqYnJV9XeqDr5b9
iavoHGv3sSSufPeWaxbcJ04iKYgt6rwBEFcBE2XqKU58s06fNeQaRpg4akbLnY4d
yorzhSBbhBIXJL90TxxAhzFS8NptZS62riidzCmWU7WQ5zEFBU0PojykL01VcQ0L
mQZtlcznn89mr9YeSGHTdFMkW29yfEOz008knBYgMfKdcAC8ZB799FgdDBqwmata
d2CV4WabuJ7UsgF1cd6gHLWRWkccmbKBhHJBm1G0T7jeViN0f3780Cc7I7FLaKq
Y3sTH04MsfFnmukBD17tuerywSGk0J7QzBICwTbqPHQpSDT2LQW4cbZdC0ZQDc3
eDw3xkYOEQTHpTFpviEVEZqobGk3rVGN7GbSsLd0R66xQLQ0Z5gH2nJKYnmSyGeK
tBaGkTM3Xel6yJ6yfgKuGUrG8zWagXS3kgxl1AQx0f0Qise89ayisuF5CIdF6kXl
H7yzXX1zKj4oGJW5zFg1pAVkMiS52hscnkyVwbyZcV46lu2o6blveMqGQQ1j3fvE
```

Attraverso l'uso di due terminali ho fatto partire il server per la ricezione dei pacchetti e dall'altro li ho inviati.