## MREŽNO PROGRAMIRANJE

## Vježba 1

1. Kreirajte .py skripte s navedenim kodom te ih pokrenite.

```
Terminal Help
                                                                                                                                                                                                           vj1.py - Vjezba2 - Visual Studio Code

    Untitled-1

                                                                                  🕏 vj1.py 🗙 📱 Python - Get Started
C: > Users > User > Documents > mbMatea > vj1 > ❖ vj1.py > {} socketpy
               import socket
            def print_machine_info():
     ber practical content of the co
              print_machine_info()
#remote_machine_info.py
              import socket
               def get_remote_machine_info():
                  remote_host = 'www.aspira.hr
                          print ("IP address: %s" %socket.gethostbyname(remote_host))
               except (socket.error, err_msg):
              print ("%s: %s" %(remote_host, err_msg))
if __name__ == '__main__':
                get_remote_machine_info()
               import socketpy
                def find_service_name():
                  protocolname = 'tcp
                for port in [80, 25]:
                   print("Port: %s => service name: %s" %(port, socket.getservbyport(port, protocolname)))
                print ("Port: %s => service name: %s" %(53, socket.getservbyport(53, 'udp')))
if __name__ == '__main__':
    find_service_name()
 PROBLEMS (3) OUTPUT TERMINAL DEBUG CONSOLE
         if __name__ == '__main__'
 SyntaxError: invalid syntax
 PS C:\Users\User\Documents\mbMatea\vj1> python3 vj1.py
 Host name: DESKTOP-8BKAFEL
 IP address: 192.168.10.30
 IP address: 159.69.120.91
 Traceback (most recent call last):
    File "C:\Users\User\Documents\mbMatea\vj1\vj1.py", line 21, in <module>
           import socketpy
 ModuleNotFoundError: No module named 'socketpy'
 PS C:\Users\User\Documents\mbMatea\vj1> [
```

2. Sav kod prebacite u interaktivni mod i izvršite ga, te za vježbu priložite screenshotove iz interpretera.

```
Terminal Help
                                                                                                vj1.py - Vjezba2 - Visual Studio Code
# style.css
                    ■ Untitled-1
                                       🕏 vj1.py
C: > Users > User > Documents > mbMatea > vj1 > 🥏 vj1.py > ...
        import socket
       def print_machine_info():
        host_name = socket.gethostname()
        ip_address = socket.gethostbyname(host_name)
        print ("Host name: %s" % host_name)
print ("IP address: %s" % ip_address)
       if __name__ == '__main__':
       print_machine_info()
        import socket
        def get_remote_machine_info():
        remote_host = 'www.aspira.hr
          print ("IP address: %s" %socket.gethostbyname(remote_host))
         except (socket.error, err msg):
        print ("%s: %s" %(remote_host, err_msg))
if __name__ == '__main__':
        get_remote_machine_info()
        import socketpy
        def find_service_name():
        protocolname = 'tcp
         for port in [80, 25]:
           print("Port: %s => service name: %s" %(port, socket.getservbyport(port, protocolname)))
       print ("Port: %s => service name: %s" %(53, socket.getservbyport(53, 'udp')))
if __name__ == '__main__':
    find_service_name()
PROBLEMS (3) OUTPUT TERMINAL DEBUG CONSOLE
Use exit() or Ctrl-Z plus Return to exit
PS C:\Users\User\Documents\mbMatea\vj1> python3

Python 3.9.2 (tags/v3.9.2:1a79785, Feb 19 2021, 13:44:55) [MSC v.1928 64 bit (AMD64)] on win32

Type "help", "copyright", "credits" or "license" for more information.
>>> #local_machine_info.py
>>> import socket
>>> def print_machine_info():
... host_name = socket.gethostname()
... ip_address = socket.gethostbyname(host_name)
... print ("Host name: %s" % host_name)
... print ("IP address: %s" % ip_address)
... if __name__ == '__main__':
File "<stdin>", line 6
    if __name__ == '__main__':
SyntaxError: invalid syntax
>>> print_machine_info()
  File "<stdin>", line 1
```

```
PROBLEMS 3 OUTPUT
                       TERMINAL
                                  DEBUG CONSOLE
  File "<stdin>", line 1
    print_machine_info()
IndentationError: unexpected indent
>>> #remote machine info.py
>>> import socket
>>> def get_remote_machine_info():
... remote host = 'www.aspira.hr'
... try:
        print ("IP address: %s" %socket.gethostbyname(remote_host))
... except (socket.error, err msg):
     print ("%s: %s" %(remote_host, err_msg))
... if __name__ == '__main__':
File "<stdin>", line 7
    if __name__ == '__main__':
SyntaxError: invalid syntax
>>> get_remote_machine_info()
 File "<stdin>", line 1
    get_remote_machine_info()
IndentationError: unexpected indent
```

```
PROBLEMS 3 OUTPUT TERMINAL DEBUG CONSOLE
   get_remote_machine_info()
IndentationError: unexpected indent
>>> #find_service_name.py
>>> import socketpy
Traceback (most recent call last):
 File "<stdin>", line 1, in <module>
ModuleNotFoundError: No module named 'socketpy'
>>> def find_service_name():
... protocolname = 'tcp'
... for port in [80, 25]:
     print("Port: %s => service name: %s" %(port, socket.getservbyport(port, protocolname)))
       print ("Port: %s => service name: %s" %(53, socket.getservbyport(53, 'udp')))
... if __name__ == '__main__':
File "<stdin>", line 6
   if __name__ == '__main__':
SyntaxError: invalid syntax
      find_service_name()
```

3. Iskoristite sljedeću funkciju u Pythonu. Potrebno je da za odabrani IP (8.8.8.8) ispišete hostname. Hint: ukoliko je potrebno možete koristiti i funkciju str() za pretvaranje u string radi lakšeg ispisa.

```
>>>
>>> import socket; print ("Hostname: %s" %(str(socket.gethostbyaddr("8.8.8.8"))))
Hostname: ('dns.google', [], ['8.8.8.8'])
>>>
```