

Feedback II



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VMware Workstation window titled "IDST - VMware Workstation". The interface shows a virtual machine named "IDST" running. The top bar indicates the date and time: "nov 24 19:03".

The main window displays the Visual Studio Code editor with the file "bot-skel.py" open. The Explorer sidebar on the left shows the project structure:

- BOT_IDST
 - .venv
 - bot-skel.py

The Terminal panel at the bottom shows the following commands and output:

```
student@pc Desktop/Bot_IDST » sudo apt install python3 python3-venv python3-pip
[sudo] password for student:
Reading package lists... Done
Building dependency tree
Reading state information... Done
python3 is already the newest version (3.8.2-0ubuntu2).
python3-venv is already the newest version (3.8.2-0ubuntu2).
python3-pip is already the newest version (20.0.2-5ubuntu1.6).
The following packages were automatically installed and are no longer required:
  linux-headers-5.4.0-48 linux-headers-5.4.0-48-generic linux-image-5.4.0-48-generic linux-modules-5.4.0-48-generic linux-modules-extra-5.4.0-48-generic
Use 'sudo apt autoremove' to remove them.
0 upgraded, 0 newly installed, 0 to remove and 278 not upgraded.
student@pc Desktop/Bot_IDST » python3 -m venv .venv
student@pc Desktop/Bot_IDST » tree -L 3 .venv
.venv
├── bin
│   ├── activate
│   ├── activate.csh
│   ├── activate.fish
│   ├── Activate.ps1
│   ├── easy_install
│   ├── easy_install-3.8
│   ├── pip
│   ├── pip3
│   ├── pip3.8
│   ├── python -> python3
│   └── python3 -> /usr/bin/python3
├── include
├── lib
│   └── python3.8
│       └── site-packages
├── lib64 -> lib
├── pyvenv.cfg
└── share
    └── python-wheels
        ├── appdirs-1.4.3-py2.py3-none-any.whl
        ├── CacheControl-0.12.6-py2.py3-none-any.whl
        ├── certifi-2019.11.28-py2.py3-none-any.whl
        ├── chardet-3.0.4-py2.py3-none-any.whl
        ├── colorama-0.4.3-py2.py3-none-any.whl
        └── contextlib2-0.6.0-py2.py3-none-any.whl
```

The status bar at the bottom indicates the current position: "Ln 8, Col 44", "Spaces: 4", "UTF-8", "LF", "Python".

At the bottom of the screen, a Windows taskbar is visible with various application icons and system information: "38°F Cloudy", "ENG US", and "7:03 PM 11/24/2021".

VMware Workstation window titled "IDST - VMware Workstation". The interface shows a virtual machine named "IDST" running, with Visual Studio Code installed inside. The Visual Studio Code window displays the file explorer on the left, showing the project structure for "BOT_IDST". The main editor area shows the file "bot-skel.py" open, displaying a directory listing of the Python environment. The terminal at the bottom shows the command prompt for the virtual machine, indicating the current directory is "/usr/bin/python3".

Visual Studio Code interface details:

- File Explorer (Left):
 - Bot_IDST
 - .venv
 - arctic_monkeys_do_i_wan...
 - bot-skel.py
 - kenny_loggins_danger_zo...
 - the_neighbourhood_swea...
 - tom_odell_another_love_...
- Terminal (Bottom):

```
python3 -> /usr/bin/python3
include
lib
  python3.8
    site-packages
lib64 -> lib
pyenv.cfg
share
  python-wheels
    appdirs-1.4.3-py2.py3-none-any.whl
    CacheControl-0.12.6-py2.py3-none-any.whl
    certifi-2019.11.28-py2.py3-none-any.whl
    chardet-3.0.4-py2.py3-none-any.whl
    colorama-0.4.3-py2.py3-none-any.whl
    contextlib2-0.6.0-py2.py3-none-any.whl
    distlib-0.3.0-py2.py3-none-any.whl
    distro-1.4.0-py2.py3-none-any.whl
    html5lib-1.0.1-py2.py3-none-any.whl
    idna-2.8-py2.py3-none-any.whl
    ipaddr-2.2.0-py2.py3-none-any.whl
    lockfile-0.12.2-py2.py3-none-any.whl
    msgpack-0.6.2-py2.py3-none-any.whl
    packaging-20.3-py2.py3-none-any.whl
    pep517-0.8.2-py2.py3-none-any.whl
    pip-20.0.2-py2.py3-none-any.whl
    pkg_resources-0.0.0-py2.py3-none-any.whl
    progress-1.5-py2.py3-none-any.whl
    pyparsing-2.4.6-py2.py3-none-any.whl
    requests-2.22.0-py2.py3-none-any.whl
    retrying-1.3.3-py2.py3-none-any.whl
    setuptools-44.0.0-py2.py3-none-any.whl
    six-1.14.0-py2.py3-none-any.whl
    toml-0.10.0-py2.py3-none-any.whl
    urllib3-1.25.8-py2.py3-none-any.whl
    webencodings-0.5.1-py2.py3-none-any.whl
    wheel-0.34.2-py2.py3-none-any.whl
```

System tray information (bottom right):

- Temperature: 38°F Cloudy
- Language: ENG US
- Time: 7:04 PM
- Date: 11/24/2021

VMware Workstation window titled "IDST - VMware Workstation". The interface shows a virtual machine named "IDST" running. The main window displays the Visual Studio Code editor with the file "bot-skel.py" open. The terminal output shows the execution of commands to set up a virtual environment and install dependencies.

Visual Studio Code interface details:

- File Explorer: Shows the project structure with folders like ".venv", "BOT_IDST", and files like "arctic_monkeys_do_i_wan...", "kenny_loggins_danger_zo...", "the_neighbourhood_swea...", and "tom_odell_another_love...".
- Terminal Output:

```
8 directories, 39 files
student@pc Desktop/Bot_IDST » source .venv/bin/activate
(.venv) student@pc Desktop/Bot_IDST » sudo apt install libffi-dev libnacl-dev python3-dev
Reading package lists... Done
Building dependency tree
Reading state information... Done
libffi-dev is already the newest version (3.3-4).
python3-dev is already the newest version (3.8.2-0ubuntu2).
libnacl-dev is already the newest version (20110221-6.1).
The following packages were automatically installed and are no longer required:
  linux-headers-5.4.0-48 linux-headers-5.4.0-48-generic linux-image-5.4.0-48-generic
  linux-modules-5.4.0-48-generic linux-modules-extra-5.4.0-48-generic
Use 'sudo apt autoremove' to remove them.
0 upgraded, 0 newly installed, 0 to remove and 278 not upgraded.
(.venv) student@pc Desktop/Bot_IDST » pip3 install 'py-cord[voice]' PyNaCl ipython
Collecting py-cord[voice]
  Using cached py_cord-1.7.3-py3-none-any.whl (786 kB)
Collecting PyNaCl
  Using cached PyNaCl-1.4.0-cp35-abi3-manylinux1_x86_64.whl (961 kB)
Collecting ipython
  Using cached ipython-7.29.0-py3-none-any.whl (790 kB)
Collecting aiohttp<3.8.0,>=3.6.0
  Using cached aiohttp-3.7.4.post0-cp38-cp38-manylinux2014_x86_64.whl (1.5 MB)
Collecting six
  Using cached six-1.16.0-py2.py3-none-any.whl (11 kB)
Collecting cffi>=1.4.1
  Using cached cffi-1.15.0-cp38-cp38-manylinux_2_12_x86_64.manylinux2010_x86_64.whl (446 kB)
Collecting pygments
  Using cached Pygments-2.10.0-py3-none-any.whl (1.0 MB)
Collecting pexpect>4.3; sys_platform != "win32"
  Using cached pexpect-4.8.0-py2.py3-none-any.whl (59 kB)
Collecting decorator
  Using cached decorator-5.1.0-py3-none-any.whl (9.1 kB)
Collecting traitlets>=4.2
  Using cached traitlets-5.1.1-py3-none-any.whl (102 kB)
Collecting prompt-toolkit!=3.0.0,!<3.0.1,<3.1.0,>=2.0.0
  Using cached prompt_toolkit-3.0.22-py3-none-any.whl (374 kB)
Collecting matplotlib-inline
  Using cached matplotlib_inline-0.1.3-py3-none-any.whl (8.2 kB)
Collecting jedi>=0.16
```

System tray information: 38°F Cloudy, 7:06 PM, 11/24/2021.

VMware Workstation window titled "IDST - VMware Workstation". The interface shows a virtual machine named "IDST" running. The terminal window displays the following output:

```
Collecting chardet<5.0,>=2.0
  Using cached chardet-4.0.0-py2.py3-none-any.whl (178 kB)
Collecting pycparser
  Using cached pycparser-2.21-py2.py3-none-any.whl (118 kB)
Collecting ptyprocess>=0.5
  Using cached ptyprocess-0.7.0-py2.py3-none-any.whl (13 kB)
Collecting wcwidth
  Using cached wcwidth-0.2.5-py2.py3-none-any.whl (30 kB)
Collecting parso<0.9.0,>=0.8.0
  Using cached parso-0.8.2-py2.py3-none-any.whl (94 kB)
Collecting idna>=2.0
  Using cached idna-3.3-py3-none-any.whl (61 kB)
Installing collected packages: async-timeout, multidict, typing-extensions, idna, yarl, attrs, chardet, aiohttp, six, pycparser, cffi, PyNaCl, py-cord, pygments, ptyprocess, pexpect, decorator,
traitlets, wcwidth, prompt-toolkit, matplotlib-inline, parso, jedi, pickleshare, backcall, ipython
Successfully installed PyNaCl-1.4.0 aiohttp-3.7.4.post0 async-timeout-3.0.1 attrs-21.2.0 backcall-0.2.0 cffi-1.15.0 chardet-4.0.0 decorator-5.1.0 idna-3.3 ipython-7.29.0 jedi-0.18.1 matplotlib-in
line-0.1.3 multidict-5.2.0 parso-0.8.2 pexpect-4.8.0 pickleshare-0.7.5 prompt-toolkit-3.0.22 ptyprocess-0.7.0 py-cord-1.7.3 pycparser-2.21 pygments-2.10.0 six-1.16.0 traitlets-5.1.1 typing-exte
nsions-4.0.0 wcwidth-0.2.5 yarl-1.7.2
(.env) student@pc Desktop/Bot_IDST » pip3 install discord.py
Collecting discord.py
  Using cached discord.py-1.7.3-py3-none-any.whl (786 kB)
Requirement already satisfied: aiohttp<3.8.0,>=3.6.0 in ./venv/lib/python3.8/site-packages (from discord.py) (3.7.4.post0)
Requirement already satisfied: async-timeout<4.0,>=3.0 in ./venv/lib/python3.8/site-packages (from aiohttp<3.8.0,>=3.6.0->discord.py) (3.0.1)
Requirement already satisfied: multidict<7.0,>=4.5 in ./venv/lib/python3.8/site-packages (from aiohttp<3.8.0,>=3.6.0->discord.py) (5.2.0)
Requirement already satisfied: chardet<5.0,>=2.0 in ./venv/lib/python3.8/site-packages (from aiohttp<3.8.0,>=3.6.0->discord.py) (4.0.0)
Requirement already satisfied: attrs<=17.3.0 in ./venv/lib/python3.8/site-packages (from aiohttp<3.8.0,>=3.6.0->discord.py) (21.2.0)
Requirement already satisfied: typing-extensions<=3.6.5 in ./venv/lib/python3.8/site-packages (from aiohttp<3.8.0,>=3.6.0->discord.py) (4.0.0)
Requirement already satisfied: yarl<2.0,>=1.0 in ./venv/lib/python3.8/site-packages (from aiohttp<3.8.0,>=3.6.0->discord.py) (1.7.2)
Requirement already satisfied: idna<=2.0 in ./venv/lib/python3.8/site-packages (from yarl<2.0,>=1.0->aiohttp<3.8.0,>=3.6.0->discord.py) (3.3)
Installing collected packages: discord.py
Successfully installed discord.py-1.7.3
(.env) student@pc Desktop/Bot_IDST » sudo apt install ffmpeg
Reading package lists... Done
Building dependency tree
Reading state information... Done
ffmpeg is already the newest version (7:4.2.4-1ubuntu0.1).
The following packages were automatically installed and are no longer required:
  linux-headers-5.4.0-48 linux-headers-5.4.0-48-generic linux-image-5.4.0-48-generic
  linux-modules-5.4.0-48-generic linux-modules-extra-5.4.0-48-generic
Use 'sudo apt autoremove' to remove them.
0 upgraded, 0 newly installed, 0 to remove and 278 not upgraded.
(.env) student@pc Desktop/Bot_IDST »
```

The bottom status bar shows the system clock as 7:06 PM on 11/24/2021, with a temperature of 38°F and a cloud icon.

VMware Workstation window titled "IDST - VMware Workstation". The interface shows a virtual machine named "IDST" running Visual Studio Code. The file explorer on the left shows the project structure, including a file named "bot-skel.py". The terminal window displays the output of a command, showing a list of installed packages and their versions. The status bar at the bottom indicates the current file is "bot-skel.py" at line 8, column 44, with 4 spaces, UTF-8 encoding, LF line endings, and Python language.

File Edit Selection View Go Run Terminal Help

EXPLORER

bot-skel.py

OPEN EDITORS

bot-skel.py

BOT_IDST

.venv

arctic_monkeys_do_i_wan...

bot-skel.py

kenny_loggins_danger_zo...

the_neighbourhood_swea...

tom_odell_another_love_...

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

1: zsh

The following packages were automatically installed and are no longer required:
linux-headers-5.4.0-48 linux-headers-5.4.0-48-generic linux-image-5.4.0-48-generic
linux-modules-5.4.0-48-generic linux-modules-extra-5.4.0-48-generic
Use 'sudo apt autoremove' to remove them.
0 upgraded, 0 newly installed, 0 to remove and 278 not upgraded.
(.venv) student@pc Desktop/Bot_IDST » pip3 lis
ERROR: unknown command "lis" - maybe you meant "list"
(.venv) student@pc Desktop/Bot_IDST » pip3 list

Package	Version
aiohhttp	3.7.4.post0
async-timeout	3.0.1
attrs	21.2.0
backcall	0.2.0
cffi	1.15.0
chardet	4.0.0
decorator	5.1.0
discord.py	1.7.3
idna	3.3
ipython	7.29.0
jedi	0.18.1
matplotlib-inline	0.1.3
multidict	5.2.0
parso	0.8.2
pexpect	4.8.0
pickleshare	0.7.5
pip	20.0.2
pkg-resources	0.0.0
prompt-toolkit	3.0.22
ptyprocess	0.7.0
py-cord	1.7.3
pycparser	2.21
Pygments	2.10.0
PyNaCl	1.4.0
setuptools	44.0.0
six	1.16.0
traitlets	5.1.1
typing-extensions	4.0.0
wcwidth	0.2.5
yarl	1.7.2

(.venv) student@pc Desktop/Bot_IDST »

Ln 8, Col 44 Spaces: 4 UTF-8 LF Python

To return to your computer, move the mouse pointer outside or press Ctrl+Alt.

38°F Cloudy 7:07 PM 11/24/2021

VMware Workstation window titled "IDST - VMware Workstation". The interface shows a virtual machine named "Bot_IDST" running Visual Studio Code. The file explorer on the left shows the project structure: "BOT_IDST" > ".venv" > "bot-skel.py". The main editor displays the "bot-skel.py" file, which contains a list of requirements and their versions, along with a list of installed packages and their versions. The terminal output shows the command "pip3 freeze > requirements.txt" and the resulting list of installed packages and their versions.

```
bot-skel.py - Bot_IDST - Visual Studio Code

File Edit Selection View Go Run Terminal Help

EXPLORER
> OPEN EDITORS
  bot-skel.py
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IDST - VMware Workstation

File Edit View VM Tabs Help

VM-PC Python101 - Autumn 2021 IDST USOTime USO

Activities Visual Studio Code nov 24 19:11

bot-skel.py - Bot_IDST - Visual Studio Code

File Edit Selection View Go Run Terminal Help

EXPLORER

bot-skel.py X

OPEN EDITORS

bot-skel.py

BOT_IDST

.venv

arctic_monkeys_do_i_wan...

bot-skel.py

kenny_loggins_danger_zo...

requirements.txt

the_neighbourhood_swea...

tom_odell_another_love_...

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

1: python3

```
(.venv) student@pc Desktop/Bot_IDST » ipython
Python 3.8.10 (default, Sep 28 2021, 16:10:42)
Type 'copyright', 'credits' or 'license' for more information
IPython 7.29.0 -- An enhanced Interactive Python. Type '?' for help.

In [1]: import discord

In [2]: discord?
Type:      module
String form: <module 'discord' from '/home/student/Desktop/Bot_IDST/.venv/lib/python3.8/site-packages/discord/_init_.py'>
File:      ~/Desktop/Bot_IDST/.venv/lib/python3.8/site-packages/discord/_init_.py
Docstring:
Discord API Wrapper
~~~~~

A basic wrapper for the Discord API.

:copyright: (c) 2015-present Rapptz
:license: MIT, see LICENSE for more details.

In [3]: discord??

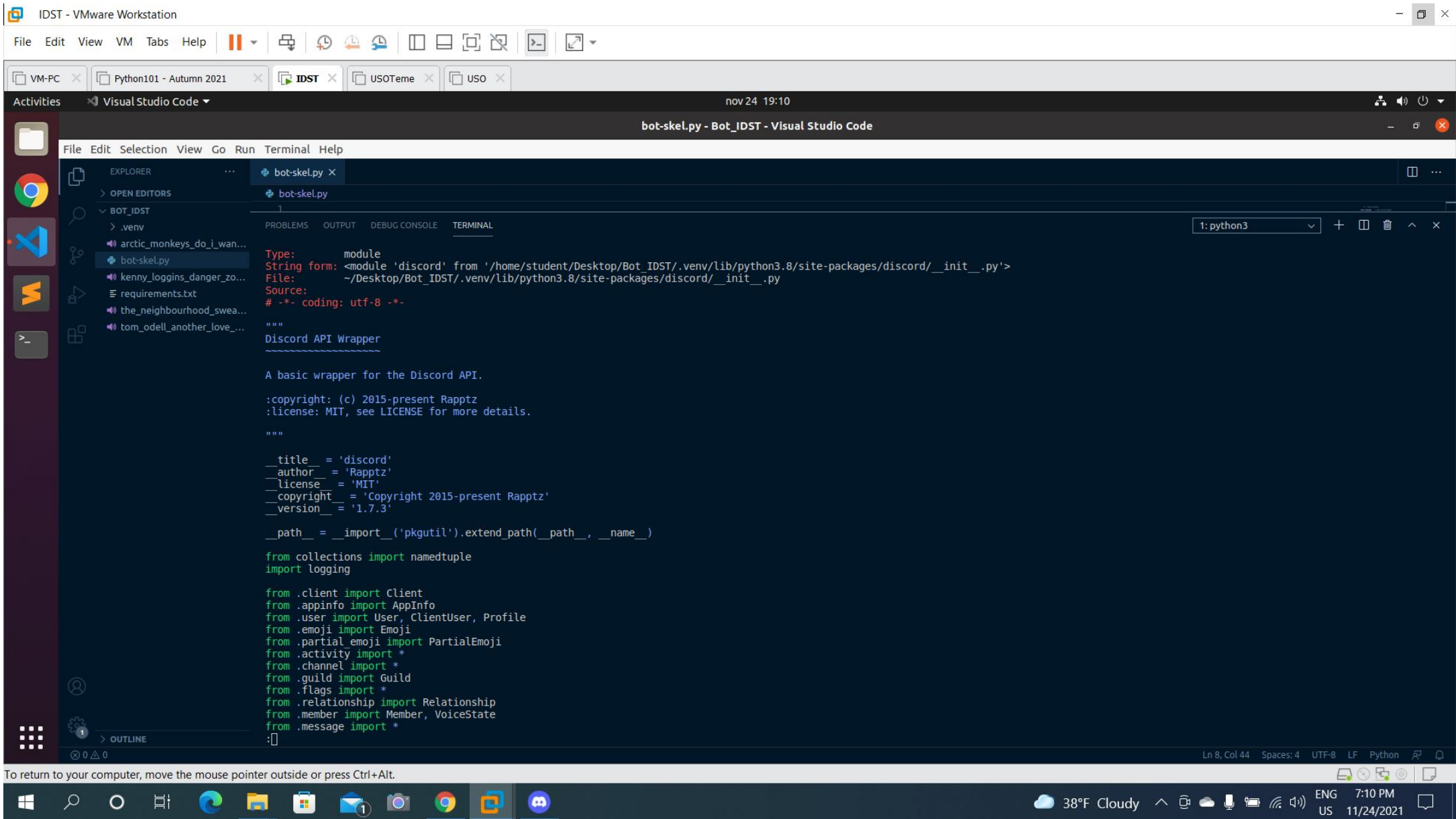
In [4]: help(discord)

In [5]:
```

Ln 8, Col 44 Spaces: 4 UTF-8 LF Python

To return to your computer, move the mouse pointer outside or press Ctrl+Alt.

38°F Cloudy 7:11 PM 11/24/2021



VMware Workstation window titled "IDST - VMware Workstation". The interface shows a virtual machine named "IDST" running Visual Studio Code. The VS Code window title is "bot-skel.py - Bot_IDST - Visual Studio Code".

The VS Code interface includes a menu bar (File, Edit, Selection, View, Go, Run, Terminal, Help), a sidebar with Explorer, Search, and Run and Debug views, and a main editor area. The Explorer sidebar shows the file structure of the "BOT_IDST" project, including files like ".venv", "bot-skel.py", "requirements.txt", and "tom_odell_another_love...".

The main editor area displays the content of "bot-skel.py". The text in the editor is as follows:

```
Help on package discord:

NAME
discord

DESCRIPTION
Discord API Wrapper
~~~~~

A basic wrapper for the Discord API.

:copyright: (c) 2015-present Rapptz
:license: MIT, see LICENSE for more details.

PACKAGE CONTENTS
main
abc
activity
appinfo
asset
audit_logs
backoff
calls
channel
client
colour
context_managers
embeds
emoji
enums
errors
file
flags
gateway
guild
http
integrations
invite
iterators
member
```

The status bar at the bottom of the VS Code window shows "Ln 8, Col 44", "Spaces: 4", "UTF-8", "LF", "Python", and a search icon.

The VMware Workstation window has a taskbar at the bottom with icons for Windows, Search, Task View, File Explorer, Calendar, Mail, Camera, Chrome, VS Code, and Discord. The system tray shows the date and time as "7:11 PM 11/24/2021" and the language as "ENG US".

VMware Workstation window titled "IDST - VMware Workstation". The interface shows a menu bar (File, Edit, View, VM, Tabs, Help) and a toolbar. Below the toolbar, there are tabs for "VM-PC", "Python101 - Autumn 2021", "IDST", "USOTeme", and "USO". The "IDST" tab is active, showing a Visual Studio Code editor window titled "bot-skel.py - Bot_IDST - Visual Studio Code".

The Visual Studio Code editor displays the file "bot-skel.py" with the following code:

```
62
63 # on_ready - called after connection to server is established
64 @bot.event
65 async def on_ready():
66     log_msg('logged on as <%=s>' % bot.user, 'info')
67
68 # on_message - called when a new message is posted to the server
69 # @msg : discord.message.Message
70 @bot.event
71 async def on_message(msg):
72     # filter out our own messages
73     if msg.author == bot.user:
74         return
75     code.interact(msg.author, msg.content)
76     log_msg('message from <%=s>: "%s"' % (msg.author, msg.content), 'debug')
77
78 # overriding the default on_message handler blocks commands from executing
79 # manually call the bot's command processor on given message
80 await bot.process_commands(msg)
81
82 # roll - rng chat command
83 # @ctx : command invocation context
84 # @max val : upper bound for number generation (must be at least 1)
```

The terminal output shows the following commands and results:

```
:copyright: (c) 2015-present Rapptz
:license: MIT, see LICENSE for more details.

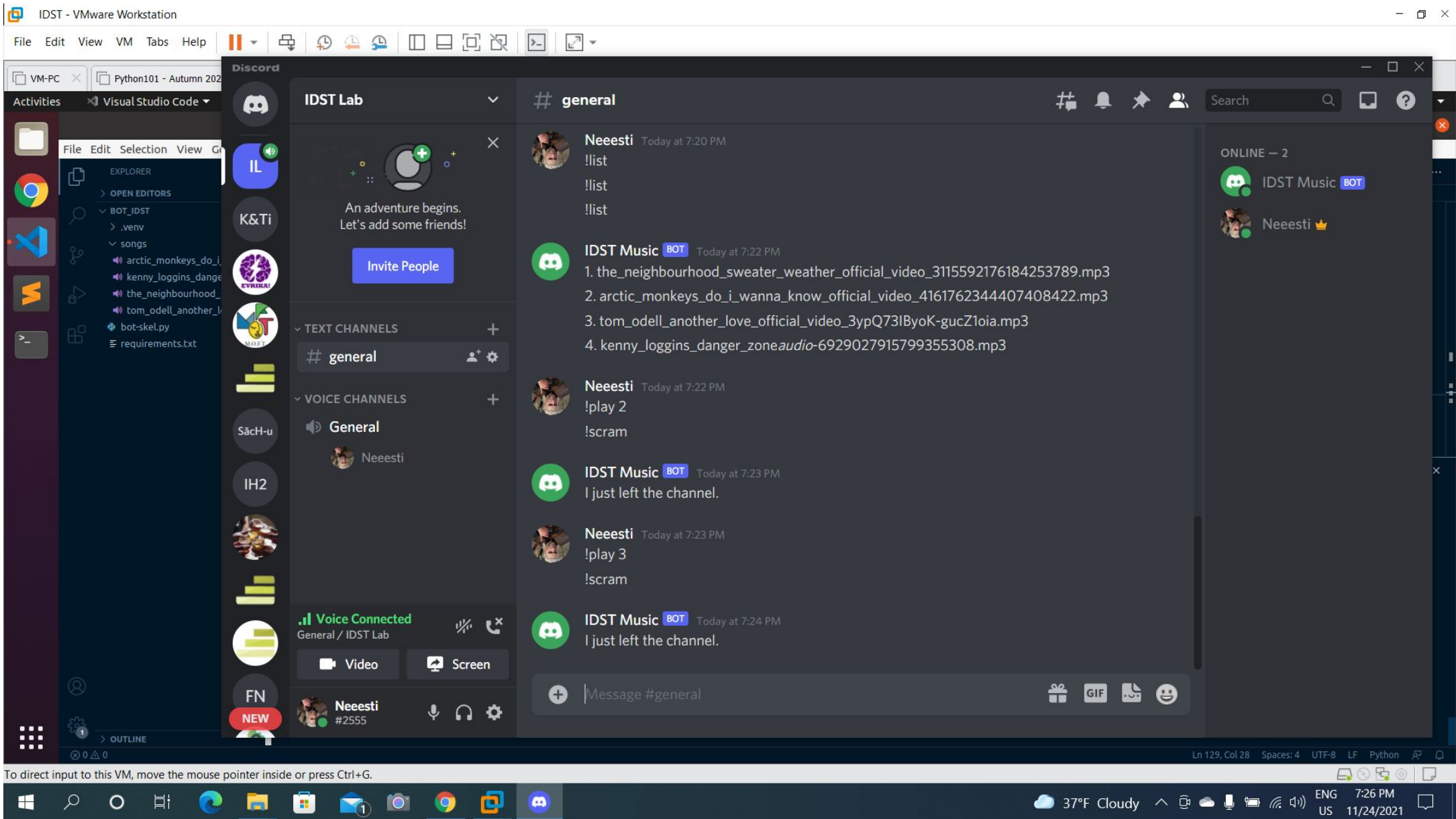
In [3]: discord??

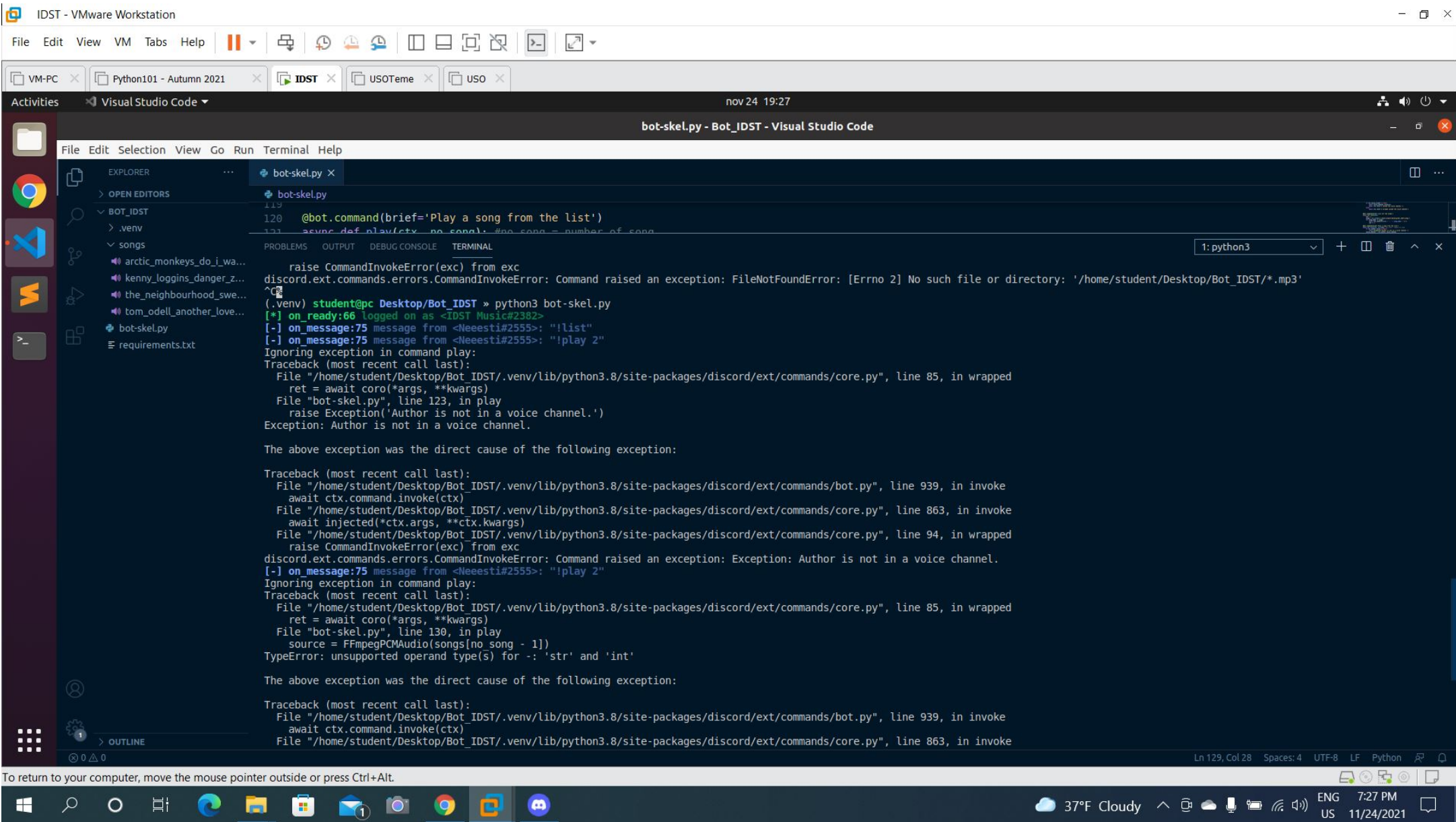
In [4]: help(discord)

In [5]: exit
(.venv) student@pc Desktop/Bot_IDST » python3 bot-skel.py
[!] <module>:151 save your token in the BOT_TOKEN env variable!
(.venv) student@pc Desktop/Bot_IDST » export BOT_TOKEN=0TEzMDY4MzIMjYwOTQ5.YZ5HJA.6cp1Lzbgua7yMnkkRla02c_CGH0
(.venv) student@pc Desktop/Bot_IDST » python3 bot-skel.py
[*] on_ready:66 logged on as <IDST Music#2382>
```

The status bar at the bottom of the Visual Studio Code window shows "Ln 82, Col 26", "Spaces: 4", "UTF-8", "LF", "Python", and a search icon.

The Windows taskbar at the bottom shows the system clock as 7:14 PM on 11/24/2021, with the temperature at 38°F and the weather as Cloudy.





IDST - VMware Workstation

File Edit View VM Tabs Help

VM-PC Python101 - Autumn 2021 IDST USOTime USO

Activities Visual Studio Code nov 24 19:27

bot-skel.py - Bot_IDST - Visual Studio Code

File Edit Selection View Go Run Terminal Help

EXPLORER

bot-skel.py X

OPEN EDITORS

BOT_IDST

.venv

songs

arctic_monkeys_do_i_wa...

kenny_loggins_danger_z...

the_neighbourhood_swe...

tom_odell_another_love...

bot-skel.py

requirements.txt

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

1: python3

```
119
120 @bot.command(brief='Play a song from the list')
121 async def play(ctx, no_song): #no_song = number of song
Ignoring exception in command play:
Traceback (most recent call last):
  File "/home/student/Desktop/Bot_IDST/.venv/lib/python3.8/site-packages/discord/ext/commands/core.py", line 85, in wrapped
    ret = await coro(*args, **kwargs)
  File "bot-skel.py", line 130, in play
    source = FFmpegPCMAudio(songs[no_song - 1])
TypeError: unsupported operand type(s) for -: 'str' and 'int'

The above exception was the direct cause of the following exception:

Traceback (most recent call last):
  File "/home/student/Desktop/Bot_IDST/.venv/lib/python3.8/site-packages/discord/ext/commands/bot.py", line 939, in invoke
    await ctx.command.invoke(ctx)
  File "/home/student/Desktop/Bot_IDST/.venv/lib/python3.8/site-packages/discord/ext/commands/core.py", line 863, in invoke
    await injected(*ctx.args, **ctx.kwargs)
  File "/home/student/Desktop/Bot_IDST/.venv/lib/python3.8/site-packages/discord/ext/commands/core.py", line 94, in wrapped
    raise CommandInvokeError(exc) from exc
discord.ext.commands.errors.CommandInvokeError: Command raised an exception: TypeError: unsupported operand type(s) for -: 'str' and 'int'
[-] on_message:75 message from <Neeesti#2555>: "!scram"
[-] on_message:75 message from <Neeesti#2555>: "!play 3"
Ignoring exception in command play:
Traceback (most recent call last):
  File "/home/student/Desktop/Bot_IDST/.venv/lib/python3.8/site-packages/discord/ext/commands/core.py", line 85, in wrapped
    ret = await coro(*args, **kwargs)
  File "bot-skel.py", line 130, in play
    source = FFmpegPCMAudio(songs[no_song - 1])
TypeError: unsupported operand type(s) for -: 'str' and 'int'

The above exception was the direct cause of the following exception:

Traceback (most recent call last):
  File "/home/student/Desktop/Bot_IDST/.venv/lib/python3.8/site-packages/discord/ext/commands/bot.py", line 939, in invoke
    await ctx.command.invoke(ctx)
  File "/home/student/Desktop/Bot_IDST/.venv/lib/python3.8/site-packages/discord/ext/commands/core.py", line 863, in invoke
    await injected(*ctx.args, **ctx.kwargs)
  File "/home/student/Desktop/Bot_IDST/.venv/lib/python3.8/site-packages/discord/ext/commands/core.py", line 94, in wrapped
    raise CommandInvokeError(exc) from exc
discord.ext.commands.errors.CommandInvokeError: Command raised an exception: TypeError: unsupported operand type(s) for -: 'str' and 'int'
[-] on_message:75 message from <Neeesti#2555>: "!scram"
```

Ln 129, Col 28 Spaces: 4 UTF-8 LF Python

To direct input to this VM, move the mouse pointer inside or press Ctrl+G.

37°F Cloudy 7:27 PM ENG US 11/24/2021

