



Python Discord Bots

Day03

Ever wondered how bots are made?







Contents

Exercise 01 : Create your very first bot	3
Exercise 02 : Turn the bot online	4
Exercise 03 : “Logging in” to the console	5
Exercise 04 : Exercise 02: Token Encapsulation	6
Exercise 05 : Responding to user input	7
Exercise 06 : Greeting the user	8

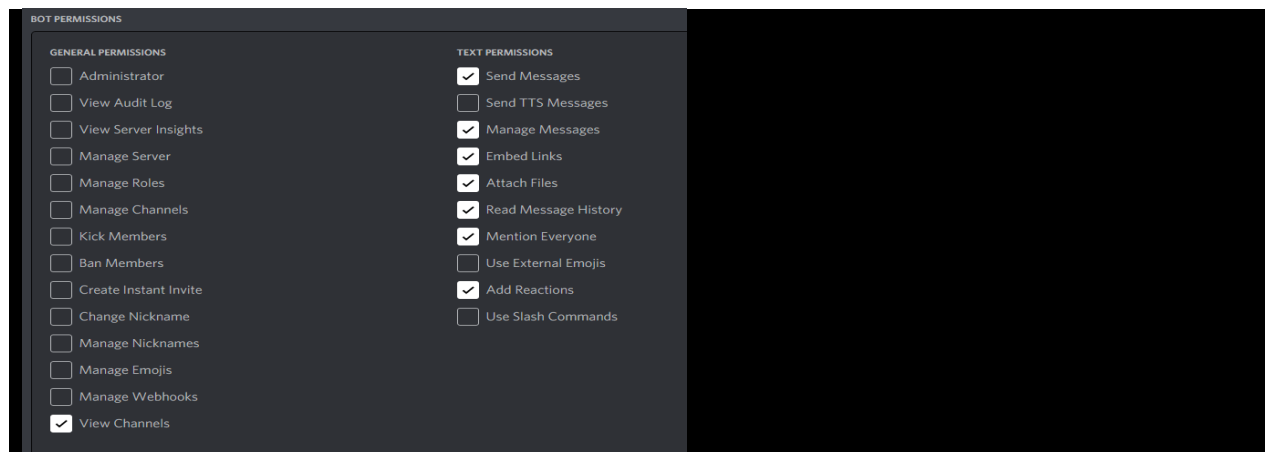
Discord Bots : A stand-out feature of the multi-level communication platform known as ‘Discord’ is its bots. Discord Bots are “AI-s” that can carry out various automated tasks on your server from responding to queries, to greeting members. Their functionalities know no boundaries, and you can program them to do anything you want. As long as you can think it up, you can code it!

So what are you waiting for? Let us code your first discord bot!

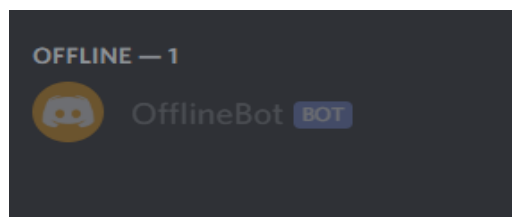
Exercise 01: Create your very first bot

	Difficulty:	★
	Objectives:	Populate your server with a discord bot.
	Skills gained / utilised:	Familiarity with discord applications
	Resources:	https://discord.com/developers/docs/intro https://discordpy.readthedocs.io/en/latest/discord.html
	Search keywords:	Discord developer bot
	Command required:	N/A







Code snippet:



Output example:



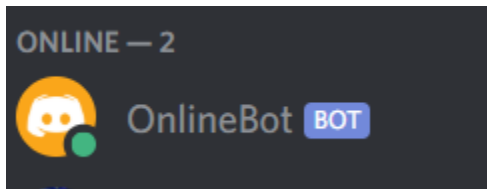
Exercise 02: Turn the bot online

	Difficulty:	★ ★
	Objectives:	Enable your bot to be online.
	Skills gained / utilised:	Quickstart Documentation Knowledge
	Resources:	https://discordpy.readthedocs.io/en/latest/
	Search keywords:	Discord py documentation
	Command required:	N/A







Code snippet:

```
import discord
```

Output example:



Exercise 03: “Logging in” to the console

	Difficulty:	★ ★
	Objectives:	Output on your console the name of your bot using <i>on_ready</i>
	Skills gained / utilised:	Basic understanding of console output.
	Resources:	https://discordpy.readthedocs.io/en/latest/api.html#discord.on_ready https://discordpy.readthedocs.io/en/latest/api.html#discord.Client.event
	Search keywords:	discord py on ready print console
	Command required:	N/A







Code snippet:

```
import discord
```

Output example:

```
Console  Shell
We have logged in as OnReadyBot#4963
█
```

Exercise 04: Token Encapsulation

	Difficulty:	★ ★
	Objectives:	Encapsulate your bot's token in 'secrets' If the token given is accurate, it must print it out onto the console, otherwise it should print "The token is incorrect! "
	Skills gained / utilised:	Basic repl.it bot security measures
	Resources:	https://docs.replit.com/repls/secrets-environment-variables https://docs.replit.com/repls/secret-keys
	Search keywords:	storing secrets in .env replit
	Command required:	N/A

Code snippet:

```
import discord
import os

...

botrun(get_token('Token'))
```

Output example







Console Shell

```
The secret TOKEN is: C4TBot's Token Variable. ✨
```

Console Shell

```
The token is incorrect! ✨
```

Exercise 05: Responding to user inputs

	Difficulty:	★ ★ ★
	Objectives:	The bot should reply to the text “\$hello” when inputted by a user other than itself.
	Skills gained / utilised:	Enabling simple bot commands
	Resources:	https://discordpy.readthedocs.io/en/latest/quickstart.html
	Search keywords:	discord py on message
	Command required:	\$hello

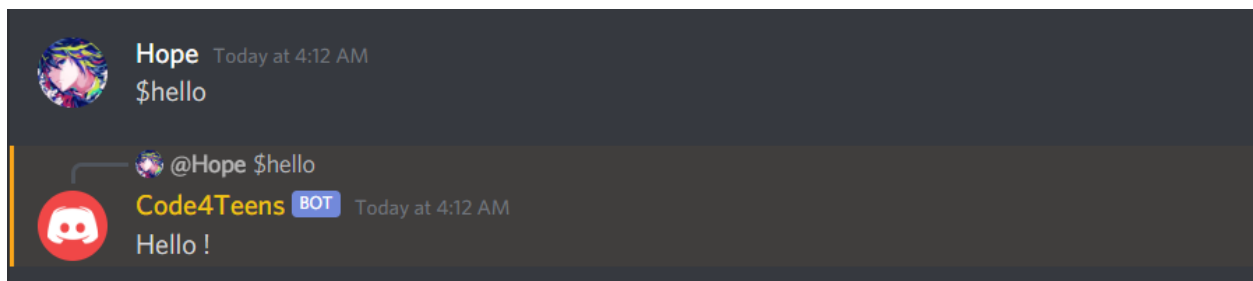
Code snippet:

```
import discord







...

await message.channel.send('Message')
```

Output example:



Exercise 06: Greeting the user

	Difficulty:	★ ★ ★
	Objectives:	The bot should reply to the text “\$greet” by greeting the author of the message by their username
	Skills gained / utilised:	Responding with `author.name`
	Resources:	https://discordpy.readthedocs.io/en/latest/ https://discordpy.readthedocs.io/en/latest/api.html#discord.Embed.author
	Search keywords:	get message author discord py
	Command required:	\$greet

Code snippet:

```
import discord

...

... {message.author.name}
```

Output example:

