



---

# KINDA'S TELEPHONE DIRECTORY SYSTEM

---

PROG2100 Mini Project



NOVEMBER 29, 2021

KINDA WASSOUF

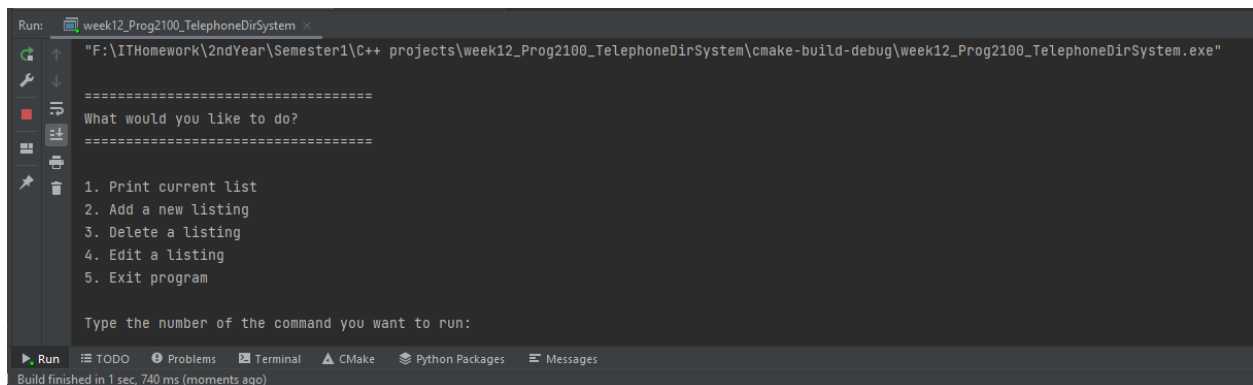
## Table of Contents

Startup .....	1
Print current list .....	2
Description .....	2
How to use .....	2
Add a new listing .....	3
Description .....	3
How to use .....	3
Delete a listing .....	5
Description .....	5
How to use .....	5
Edit a listing .....	7
Definition .....	7
How to use .....	7
Exit Program .....	9
Description .....	9
How to use .....	9

## Startup

I highly suggest using the Clion IDE to run the program, but I expect it to work in any IDE you run it in so long as it can compile C++ code.

When you first start up the program, you will see this start menu in the terminal:



```
Run: week12_Prog2100_TelephoneDirSystem x
"F:\ITHomework\2ndYear\Semester1\C++ projects\week12_Prog2100_TelephoneDirSystem\cmake-build-debug\week12_Prog2100_TelephoneDirSystem.exe"

=====
What would you like to do?
=====

1. Print current list
2. Add a new listing
3. Delete a listing
4. Edit a listing
5. Exit program

Type the number of the command you want to run:

Run | TODO | Problems | Terminal | CMake | Python Packages | Messages
Build finished in 1 sec, 740 ms (moments ago)
```

Figure 1: Terminal at startup

Your options from here consist of the options listed in the terminal. I explain what each option does below...

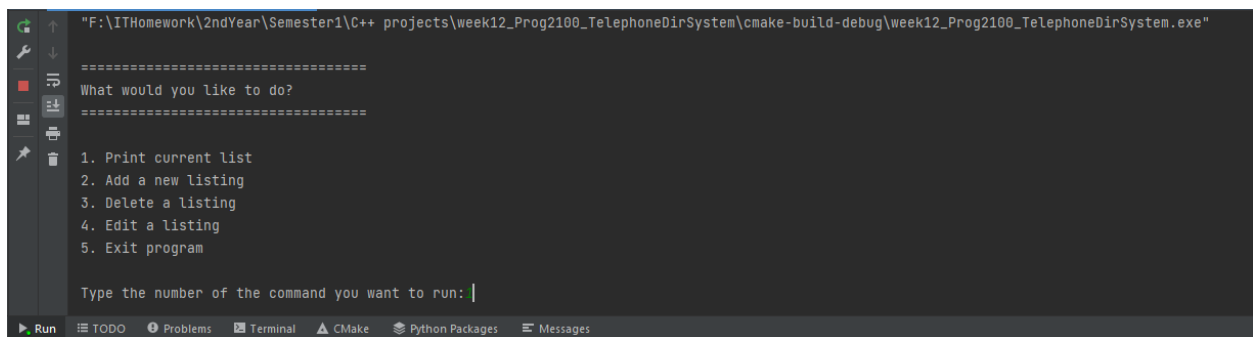
## Print current list

### Description

This option allows you to print the current list of telephone numbers that are housed in the program.

### How to use

All you have to do is type the number 1 in the terminal and press Enter on your keyboard to choose this option. See the screenshot below.

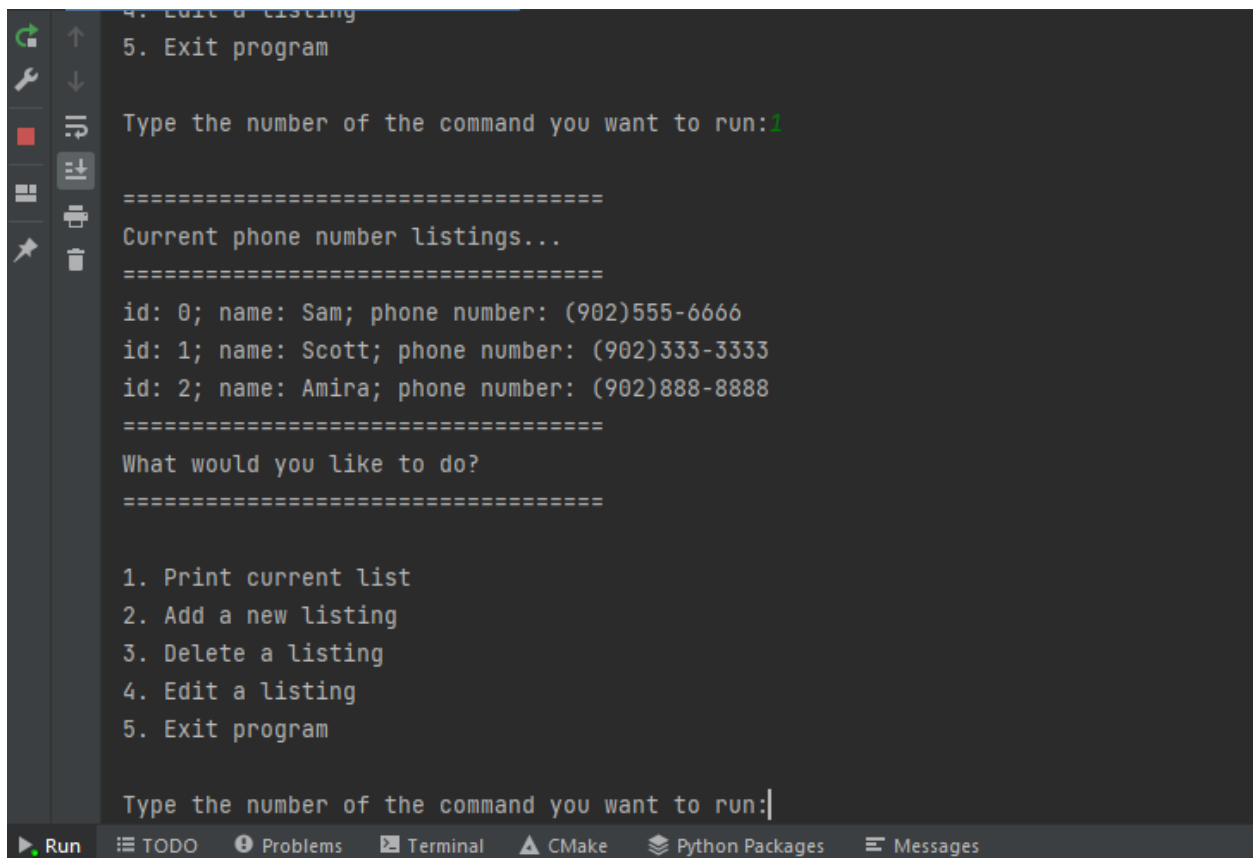


```
"F:\ITHomework\2ndYear\Semester1\C++ projects\week12_Prog2100_TelephoneDirSystem\cmake-build-debug\week12_Prog2100_TelephoneDirSystem.exe"
=====
What would you like to do?
=====
1. Print current list
2. Add a new listing
3. Delete a listing
4. Edit a listing
5. Exit program

Type the number of the command you want to run: |
```

Figure 2: Type 1 in terminal

Once you press Enter, the program will print all the current telephone number listings in the terminal, then take you back to the start menu of the program like so:



```
4. Edit a listing
5. Exit program

Type the number of the command you want to run:1

=====
Current phone number listings...
=====
id: 0; name: Sam; phone number: (902)555-6666
id: 1; name: Scott; phone number: (902)333-3333
id: 2; name: Amira; phone number: (902)888-8888
=====
What would you like to do?
=====

1. Print current list
2. Add a new listing
3. Delete a listing
4. Edit a listing
5. Exit program

Type the number of the command you want to run:|
```

Figure 3: Current listings printed

## Add a new listing

### Description

This option allows the user to add a new listing into the program's telephone number list.

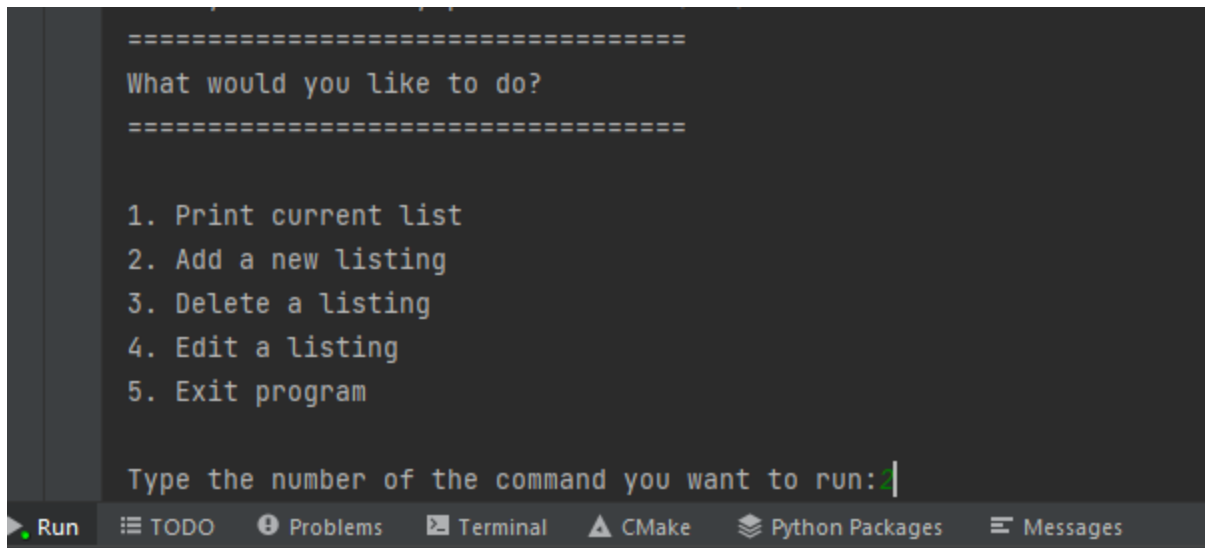
### How to use

To select this option from the start menu, type the number 2 in the terminal and press Enter like so:

```
=====
What would you like to do?
=====

1. Print current list
2. Add a new listing
3. Delete a listing
4. Edit a listing
5. Exit program

Type the number of the command you want to run:|
```



Once you press Enter, the program will print the following in the terminal:

```
=====
What would you like to do?
=====

1. Print current list
2. Add a new listing
3. Delete a listing
4. Edit a listing
5. Exit program

Type the number of the command you want to run:2

=====
Add a new listing
=====

Phone:|
```

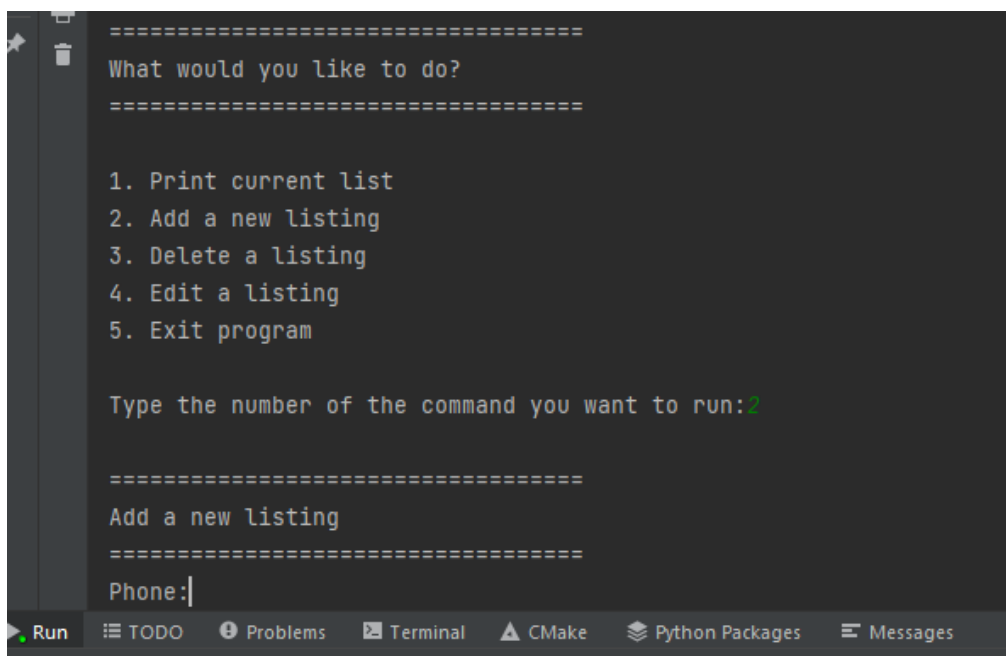
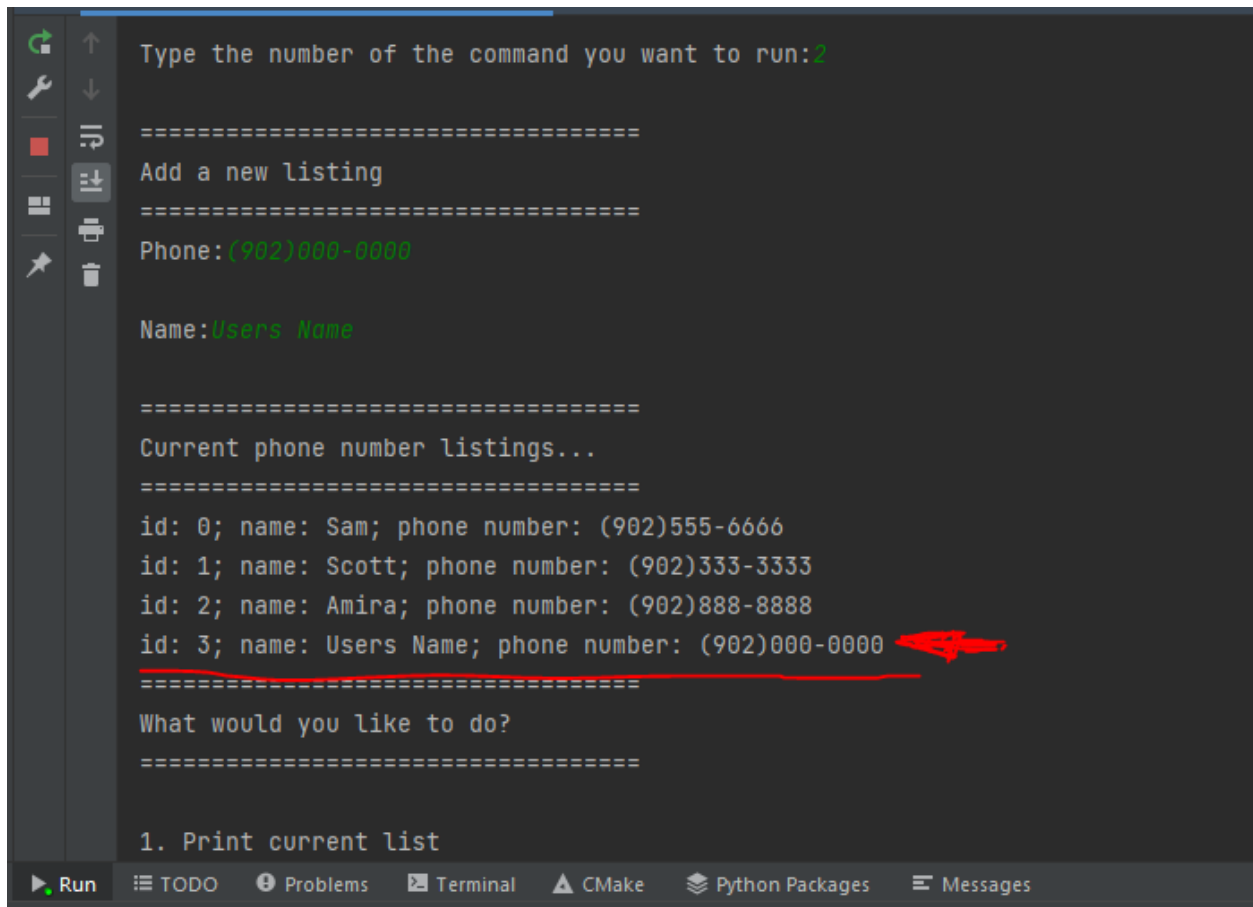


Figure 4: Add phone number

Now you can type in the new phone number you want to add. Press Enter again, and you will be asked to type the name that this phone number belongs to in the same way. See the screenshot below.



```
Type the number of the command you want to run:2

=====
Add a new listing
=====
Phone:(902)000-0000

Name:Users Name

=====
Current phone number listings...
=====
id: 0; name: Sam; phone number: (902)555-6666
id: 1; name: Scott; phone number: (902)333-3333
id: 2; name: Amira; phone number: (902)888-8888
id: 3; name: Users Name; phone number: (902)000-0000
=====
What would you like to do?
=====

1. Print current list
```

Figure 5: Phone number and name have been added

As you can see in the screenshot above, after pressing Enter again, the new listing contains the phone number and name that the user input above in green. We are then taken back to the start menu once again.

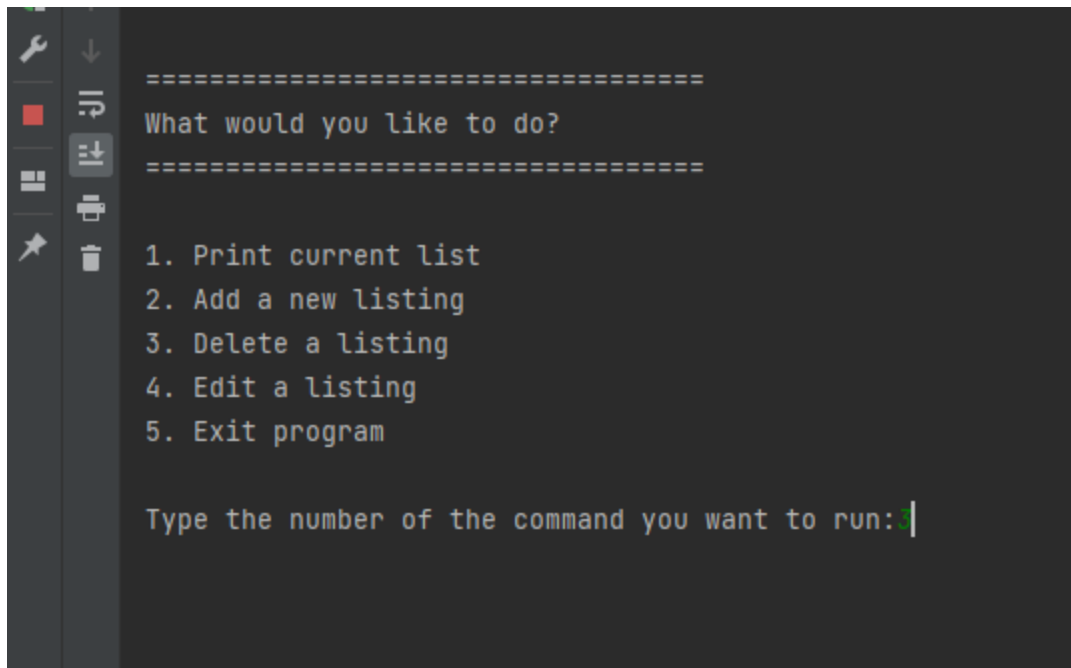
## Delete a listing

### Description

This option allows the user to delete one of the already existing listings of telephone numbers in the program.

### How to use

In order to select this option, just type the number 3 in the terminal and press Enter like so:



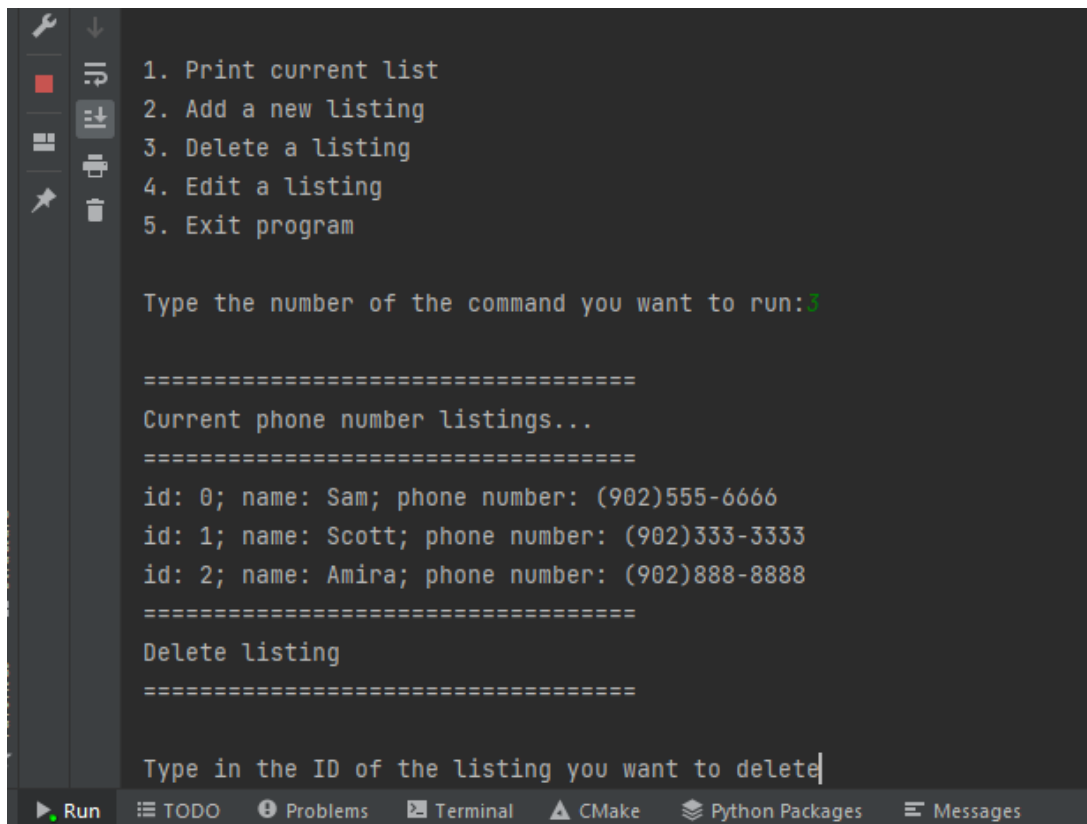
```
=====
What would you like to do?
=====

1. Print current list
2. Add a new listing
3. Delete a listing
4. Edit a listing
5. Exit program

Type the number of the command you want to run: |
```

Figure 6: Choose delete option

Once you press Enter, the program will print the following in the terminal:



```
1. Print current list
2. Add a new listing
3. Delete a listing
4. Edit a listing
5. Exit program

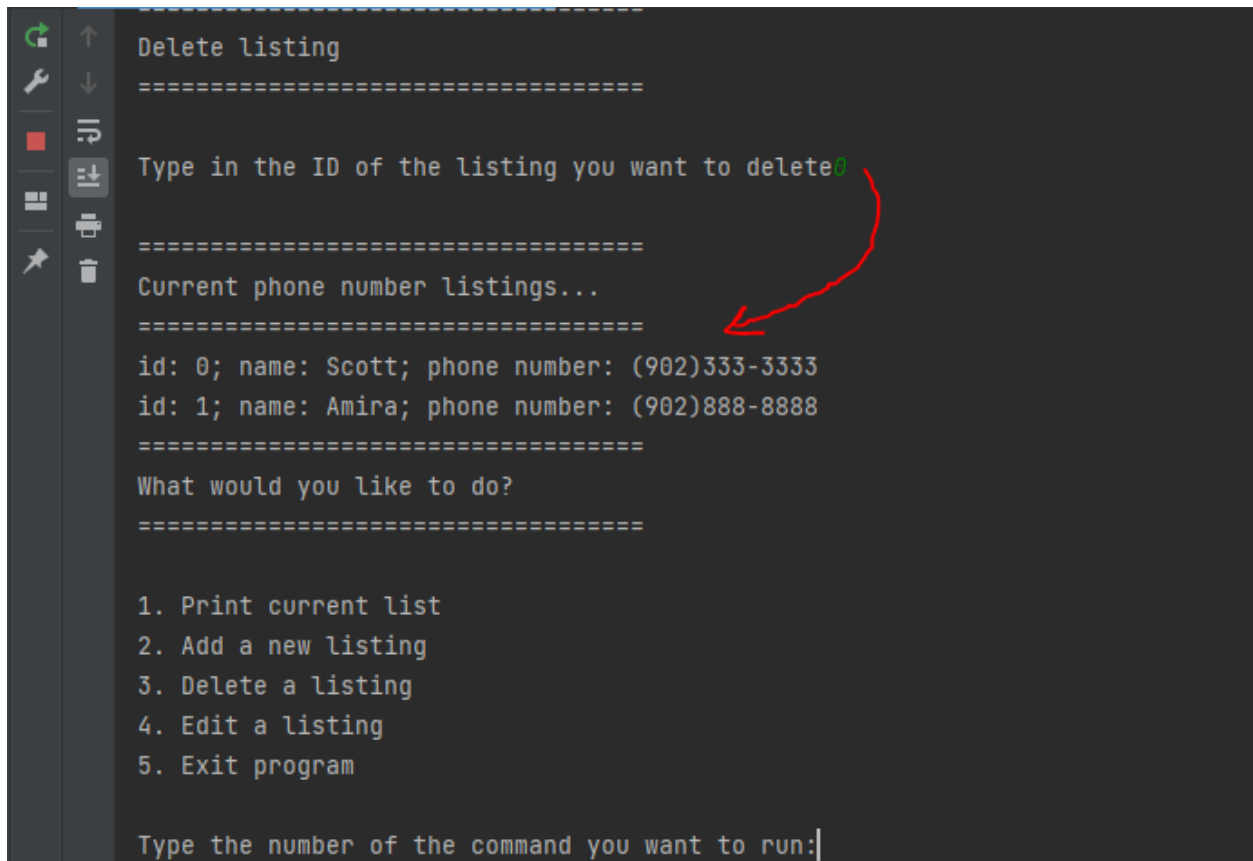
Type the number of the command you want to run: 3

=====
Current phone number listings...
=====
id: 0; name: Sam; phone number: (902)555-6666
id: 1; name: Scott; phone number: (902)333-3333
id: 2; name: Amira; phone number: (902)888-8888
=====
Delete listing
=====

Type in the ID of the listing you want to delete |
```

Figure 7: Choose which listing to delete

You can choose which of the above listings to delete by typing in the ID number of the listing and pressing Enter. Once you do, it will print the remaining listings again and take you back to the start menu as you can see in the screenshot below.



```
Delete listing
=====
Type in the ID of the listing you want to delete
=====
Current phone number listings...
=====
id: 0; name: Scott; phone number: (902)333-3333
id: 1; name: Amira; phone number: (902)888-8888
=====
What would you like to do?
=====
1. Print current list
2. Add a new listing
3. Delete a listing
4. Edit a listing
5. Exit program
Type the number of the command you want to run:
```

Figure 8: First listing is deleted

As you can see above, the listing with the name “Sam” and number “(902)555-6666”, which was the first row in the list, is now gone and the remaining two listings have moved up on the list. Their IDs also now reflect this.

## Edit a listing

### Definition

This option allows the user to edit one of the listings that already exist in the program.

### How to use

You can use this option in the menu by typing the number 4 in the terminal and pressing Enter on your keyboard like so:



```
=====
What would you like to do?
=====

1. Print current list
2. Add a new listing
3. Delete a listing
4. Edit a listing
5. Exit program

Type the number of the command you want to run:4
```

Figure 9: Selecting the edit listing option

Once you press Enter, the current listings will be printed in the terminal as shown in the screenshot below.

```
id: 1, name: Amira, phone number: (902)888-8888
=====
What would you like to do?
=====

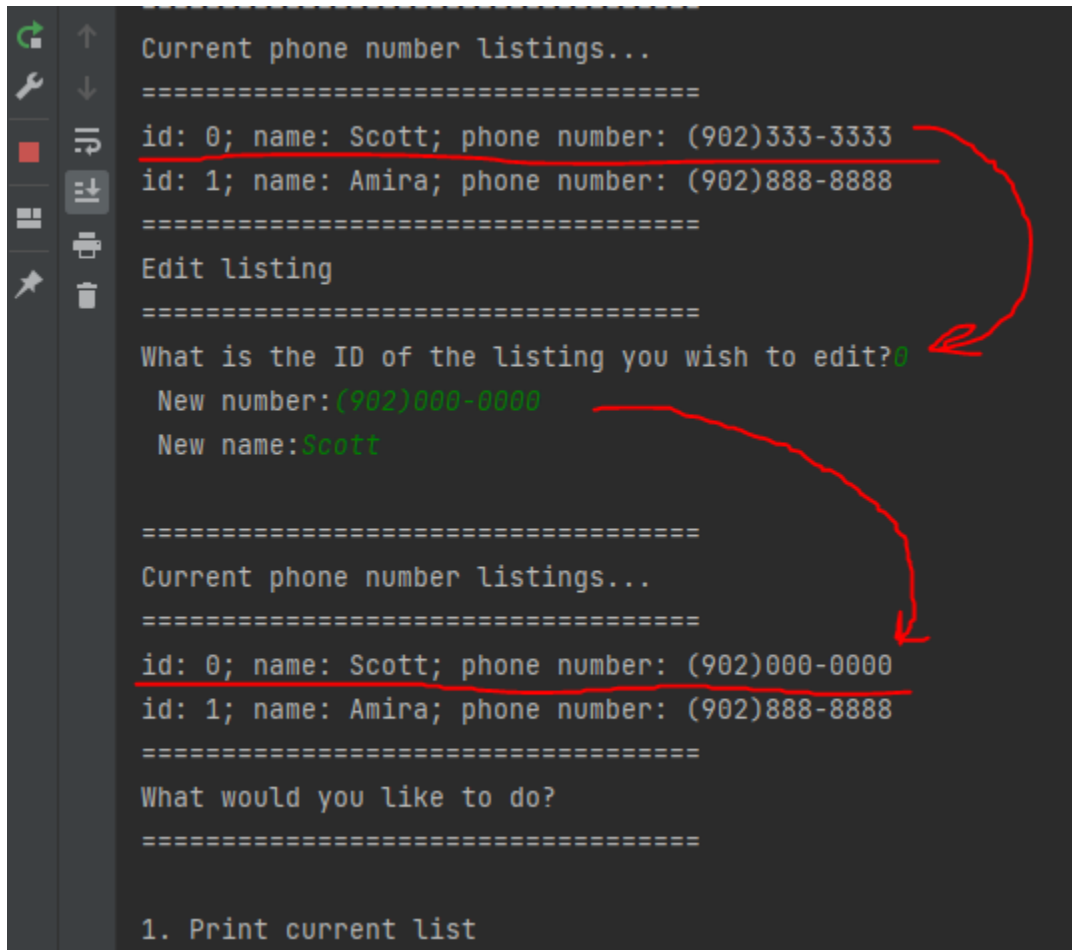
1. Print current list
2. Add a new listing
3. Delete a listing
4. Edit a listing
5. Exit program

Type the number of the command you want to run:4

=====
Current phone number listings...
=====
id: 0; name: Scott; phone number: (902)333-3333
id: 1; name: Amira; phone number: (902)888-8888
=====
Edit listing
=====
What is the ID of the listing you wish to edit?
```

Figure 10: Editing listing

You can then input the ID of the listing you want to change, then input the new phone number and name it belongs to. Remember to press Enter on your keyboard after typing out each input.



```
Current phone number listings...
=====
id: 0; name: Scott; phone number: (902)333-3333
id: 1; name: Amira; phone number: (902)888-8888
=====
Edit listing
=====
What is the ID of the listing you wish to edit?0
New number:(902)000-0000
New name:Scott

=====
Current phone number listings...
=====
id: 0; name: Scott; phone number: (902)000-0000
id: 1; name: Amira; phone number: (902)888-8888
=====
What would you like to do?
=====

1. Print current list
```

Figure 11: Edited first listing

As you can see in the screenshot above, I decided to edit the first listing, change the number to the one in green, but decided to keep the name the same by re-inputting it. After pressing Enter for the final time, we are taken back to the start menu.

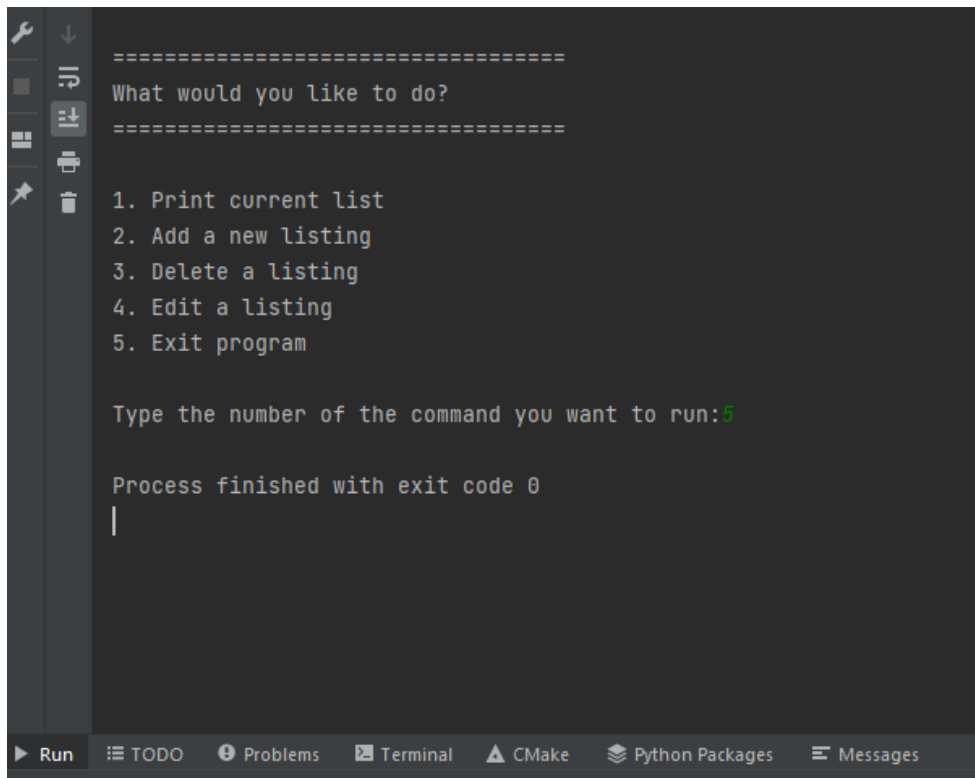
## Exit Program

### Description

This option is used to exit out of the entire program once we are done using it.

### How to use

All you need to do is input the number 5 into the terminal and press Enter. That's it.



```
=====
What would you like to do?
=====

1. Print current list
2. Add a new listing
3. Delete a listing
4. Edit a listing
5. Exit program

Type the number of the command you want to run: 5

Process finished with exit code 0
|
```

The screenshot shows a terminal window within an IDE. The terminal displays a menu with five options: 1. Print current list, 2. Add a new listing, 3. Delete a listing, 4. Edit a listing, and 5. Exit program. The user has entered '5' to exit the program. The terminal also shows the prompt 'Type the number of the command you want to run:' and the message 'Process finished with exit code 0'. The IDE interface includes a sidebar with icons for Run, TODO, Problems, Terminal, CMake, Python Packages, and Messages.

Please note that due to the absence of a database, currently there is no way to save your changes to the listings in the program. Thus, when you start it again, all your edits and additions to the list and listings will be gone.